



INTERNAL QUALITY ASSURANCE CELL (IQAC)
ACADEMIC AND ADMINISTRATIVE AUDIT

For ACADEMIC YEAR: 2021-2022 SEM - I

(Provide information for Academic Year 2021-2022 SEM - I)

Section I: Basic Information

1	Audit Date	14/11/2022
2	Name of Department	E&TC
3	Head of Department	Dr.vilas Deotare
4	Number of Full time teachers	13
5	Number of Technical Staff	02
6	Number of Student	174
7	Student Full Time Teacher Ratio	13.38:1

Section II: Curricular Aspects

> Academic Planning

Sr. No	Particular	Yes / No	Remark (if any)
1	Departmental Academic Calendar	Yes	
2	Faculty Subject Choices	Yes	
3	Elective Choice from Student	Yes	
4	Course / Subject Distribution to Faculty	Yes	
5	All Time Tables	Yes	
6	Teaching plan & Laboratory plan		





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

Sr. No.	Name of Faculty	Participated as	Course	Class
1		NIL		


- List of Elective Courses in Elective Course System conducted by department to students (TE/BE)

Sr. No	Name of Elective Course	Semester
1	DIP	VII
2	EPD	VII
3	CN(computer Network)	V

- List of audit courses in CBCS system conducted by department

Sr. No	Name of Audit Course	Class	Semester
1	Sci. Technology and Society	SE	III
2	Dev. Soft Skills and Per.	TE	V
3	Team building , leadership and Fitness	BE	VII

- List of value added courses conducted in department

Sr. No	Name of Value Added Course	Target Audience (FE/ SE / TE/ BE)	No of Students Participated
		2	 Principal Nutan Maharashtra Institute of Engg & Technology Pimpri Chinchwad Education Trust Pimpri Chinchwad Pune - 411007



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1.	4 days workshop on Modern Tool usage for Embedded Systems	TE	50+
2.	3 days workshop on Arduino and Raspberry PI	SE, TB, BE	100+

Section III: Teaching Learning & Evaluation

➤ Course / Curriculum Delivery

Sr. No.	Name of Subject	Name of Faculty	No. of Lectures / Practical's as Per Syllabus	No. of Lectures / Practical's as Per teaching plan / Lab Conducted Plan	No. of Lectures/ Practical Conducted
SE(2019)					
1	Engineering Mathematics III	Prof. Shankar rao Ugale	52	52	52
2	Electronic Circuits	Dr. Prof. Gayatri Ambadkar	46	48	50
3	Digital Circuits	Dr. Prof. Chincholkar	36	36	36
4	Electrical Circuits	Prof. Nutan Patil	44	44	44
5	Data structures	Dr. V.V. Deotare	42	42	42
6	Electronic Circuit Lab	Dr. Prof. Gayatri Ambadkar	8	8	8
7	Digital circuits Lab	Dr. Prof. Chincholkar	8	8	8
8	Electrical Circuit Lab	Prof. Nutan Patil & Prof. Sarika N. Patil	8	8	8




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9	Data Structures Lab	Prof. Sarika B.Patil	10	10	10
10	Electronic Skill Development Lab	Prof Sushma Bhosale	8	8	8
TE(2019)					
1	Digital Communication	Prof.Neeta Karhadkar	42	43	43
2	Electromagnetic Field Theory	Dr.Prof. Gayatri Ambadkar	48	51	49
3	Database Management	Prof. Sarika B.Patil	45	45	45
4	Microcontrollers	Dr.Lalit Wadhwa	36	36	36
5	Elective - I(CN)	Prof. Harsha Sarode	38	38	38
6	Digital Communication Lab	Prof.Neeta Karhadkar	10	10	10
7	Database Management Lab	Prof. Sarika B..Patil	8	8	8
8	Microcontroller Lab	Prof.Sarika N.Patil	8	8	8
9	Elective I Lab	Prof. Harsha Sarode	8	8	8
8	Skill Development Lab	Prof.Neeta Karhadkar	6	6	6
BE(2015)					
1	VLSI Design & Technology	Prof. Bhagyashri A. Warhade	39	40	40



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2	Computer Networks & Security	Prof. Nutan Patil	40	42	42
3	Radiation & Microwave Techniques	Dr. Sagar Joshi	39	39	40
4	Elective I (DIVP)	Prof. Harsha Sarode	38	38	38
5	Elective II (EPD)	Prof. Sarika N. Patil	36	36	32
6	Lab Practice -I (CNS)	Prof. Nutan Patil	8	10	10
7	Lab Practice -I (RMT)	Prof. Sagar Joshi	8	8	8
8	(VLSI) Lab	Prof. Bhagyashri A. Warhade	VLSI-8	VLSI-8	VLSI-8

➤ **Use of ICT Tools in Teaching Learning**

Sr. No.	Name of Faculty	Name of Subject for which ICT Used	ICT Tool / Technique Used
1	Prof. Nutan Patil	CNS & Electrical circuits	PC, Screen, Projector, chalk, duster, board.
2	Prof. Bhagyashri A. Warhade	VLSI Design and Technology	PPT., Video lectures
3	Prof. Sarika B. Patil	Database Management	PC, Screen, Projector, chalk, duster, board.
4	Dr. Lalit Wadhwa	Microcontroller	PC, Screen, Projector, chalk, duster, board.
5	Prof. Harsha Sarode	CN, DIVP	PPT., Video lectures, chalk, duster, board.

➤ **List of Expert Lecturers / Workshops Conducted**




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Sr. No	Expert Lecture Topic Name	Expert Speaker /	Date of	Target Audience (FE/ SE / TE/ BE)
1	Webinar on Skill Development in PCB Design	Mr.Ankit Pawar	29th Nov 2021	SE,TE,BE
2.	Webinar on Career oportunities after Engineering	Dr.Pabba Ramesh,ACE Engineering Academy	26/03/2022	TE, BE


➤ Activities for Slow and Advanced Learner

Sr. No.	Name of Subject	Name of Faculty	Slow Learners / Adv. Learners Identified (Yes / No)	No. of Sessions Conducted for Slow Learners	Activities / Task Assigned for Advanced Learner
1	Prof. Bhagyashri A. Warhade	VLSI Design and Technology	Yes	5	
2	Dr.Lalit wadhwa	Microcontroller	Yes	2	Project based learning based on 8 bit Microcontroller
3	Dr. Gayatri Ambadkar	EFT	Yes	6	Topic presentations
4	Prof. Nutan Patil	ELC	Yes	4	
5.	Prof. Neeta Karhadkar	DC	Yes	4	Presentation on Assigned task
6.	Prof. Harsha Sarode	DIVP	Yes	3	Topic presentations

➤ List of Bridge Courses Conducted

Name of Subject for which Bridge Course Conducted	Date of Event	No of participants
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Training Program by Campus Credential module 5	3rd March 2023 to 21st April 2023	26
Hands On Workshop "Code Genesis: OOP in C++ and Java"	20th Sept.2022 to 22 Sept.2022	51

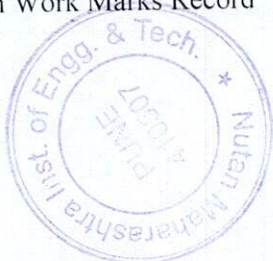
➤ **Counselling and Mentoring**

Sr. No.	Particular	Yes / No	Remark (if any)
1	Mentor Allocation	Yes	
2	Class wise Student Profile Record Maintained	Yes	
3	Mentor Mentee Session Record Maintained	Yes	

No. of Students in Department	No. of Full Teachers in Department	Mentor: Mentee Ratio
174	11	15.81:1

➤ **Internal Evaluation System**

Sr. No.	Particular	Yes / No	Remark (if any)
1	Continuous Evaluation Record	Yes	
2	Mock Online Exam Record	No	
3	Unit Test / Class test Record	Yes	
4	Prelim Exam Record	Yes	
5	Mock Oral Practical Record	No	
6	Seminar / Project Review Record	Yes	
7	Term Work Marks Record	Yes	



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➤ **Learning Outcome**

Sr. No.	Particular	Yes / No	Remark (if any)
1	PO,PSO, CO are well stated	Yes	
2	Correlation of COs in PSOs and POs	Yes	
3	Course Outcome attainment Calculated	Yes	
4	Program Specific Outcome & Program Outcome attainment through course Outcome calculated	Yes	

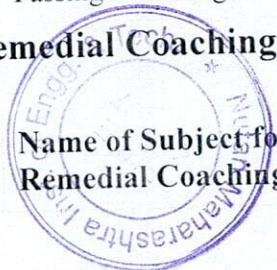
➤ **Student Performance in University Exam**

❖ **Semester I**

Sr. No.	Particular	SE	TE	BE
1	Number of Students Appeared	76	48	51
2	Number of All cleared Students	76	48	51
3	Number of Students Passed with Distinctions	74	48	51
4	Number of Students Passed with First Class	2	0	0
5	Number of Students Passed with Higher Second Class	0	0	0
6	Number of Students Passed with Second Class	0	0	0
7	Number of Students Failed	0	0	0
8	Passing Percentage	100	100	100%

➤ **Remedial Coaching**

Sr. No.	Name of Subject for which Remedial Coaching Conducted	Name of Faculty	Class	Semester



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1	VLSI Design and Technology	Prof. Bhagyashri A. Warhade	BE	VII
2	Microcontroller	Dr. Lalit wadhwa	TE	V
3	EFT	Dr. Gayatri Ambadkar	TE	V
4	ELC	Prof. Nutan Patil	SE	III

Section IV: Structured Feedback

Sr. No.	Particular	Yes / No	Remark (if any) Yes
1	Student Feedback on Teaching Learning Conducted & Analysed	Yes	
2	Parent Meet / Parent Feedback Conducted & Analysed	Yes	
3	Student Exit Survey Conducted & Analysed	Yes	
4	Alumni Feedback Conducted & Analysed	Yes	

Section V: Research, Innovation, Publication

- > Research grants, projects completed and ongoing from funding agencies (like SPPU, BCUD, UGC, AICTE, DST)

Sr. No.	Principal Investigator	Title of Project	Funding Agency	Amount (Rs. In Lakh)	Remark (if any)
			NIL		 Nutan Maharashtra Institute of Engineering and Technology "Samarth Vidya Sanstha" Pimpri Chinchwad Telgaon Dahade, 410507



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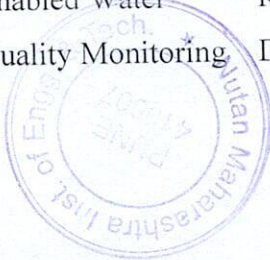
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➤ **Faculty Publications**

Number of Publication in National Journals	NIL
Number of Publication in International Journals	4
Number of Publication in National Conferences	NIL
Number of Publication in International Conferences	1

☐ **National Journal**

Sr. No.	Title of Paper	Name of the Author/s	Name of Journal	ISBN/ISSN	Number
1	Parameter Dependencies and Optimization of True Random Number Generator (TRNG) using Genetic Algorithm (GA)	Dr. Vilas Deotare ¹ , Dr. Dinesh Padole ² , Lalitkumar Wadhwa ³	ICSCC 2021 CONFERE NCE	978-1-7281-9687-9/21/\$31.00 ©2021 IEEE	IEEE Explore July 2021
2	Novel Architecture For 16*16 Binary Multiplications Using Redundant Technique	Dr. Vilas Deotare	Design Engineering	Year 2021, Issue 7	ISSN No: 0011-9342 2021
3	Internet of Things Enabled Water Quality Monitoring	Mrs. Dipali K. Shende Dr. Vilas	Year 2021, Issue 8. Design	ISSN No: 0011-9342	2021





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	and Alert System Using Improved Multicast Routing Algorithm	Deotare	Engineering		
4	Insect Classification and Alert System Using CNN	Dr. Vilas V Deotare1, Harshal Khachane2, Dhiraj Bukan3, Tanuja Patil4	www.global research conference. com	IEEE Explore	

International Journal

Sr. No.	Title of Paper	Name of the Author/s	Name of Journal	ISBN/ISSN	Number
			NIL		

National Conference

Sr. No.	Title of Paper	Name of the Author/s	Title of the Proceedings of the Conference	Name of the Conference	ISBN/ISSN Number	Publisher
				NIL		

International Conference





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Sr. No.	Title of Paper	Name of the Author/s	Title of the Proceedings of the Conference	Name of the Conference	ISBN/ISSN Number	Publisher
1	Parameter Dependence and Optimization of True Random Number Generator (TRNG) using Genetic Algorithm (GA)	Dr. Vilas Deotare1 , Dr. Dinesh Padole2 , Lalitkumar Wadhwa3	ICSCC 2021 CONFERENCE	978-1-7281-9687-9/21/\$31.00 ©2021 IEEE	IEEE Explore	July 2021

Books / Book Chapters

Sr. No.	Title of the Book/chapters Published	Name of the Author/s	ISBN/ISSN Number	Publisher
			NIL	

Section VI: Collaborations & Linkages

➤ Student Internships:

Sr. No.	Name of Student	Name of Sponsored Industry / Research Institute / Partnering Institution	Duration
1	Sagar Kundur	Suyidha Foundation	1 Month



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2	Nikita Namdev Deshmukh	Emertxe technology, Bangalore	1 month
3	Akshada Uttam Kalokhe	Emertxe IT Institute	2 months
4	Yogesh Sandbhor	Emertxe information technologies, Bengaluru	2 month
5	Sujal Patil	IntrrnBug	15 Days
6	Sagar Dadasaheb Dede	MRND LAB PVT.LTD	Three months
7	Prathamesh Bhoite	Technofist Solutions	3 Months
8	Akshay Rasal	Neuro Master Tech	Three Months
9	Sai Sanjay Chikne	Technofist Solutions	3 months
10	Vivek Manoj Damare	Technofist Solutions	4 Months
11	Neeraj Ravindra Deshmukh	Technofist solutions	4 months
12	Pooja Sherkhane	EMERTXE IT Institute	2 Months
13	Dhiraj Bukan	Pearl Automation	1 months
14	Usha Aragade	EMERTXE IT Institute	2 months

➤ **Sponsored Projects**

Sr. No.	Project Title	Name of Student	Name of Sponsored Industry/ Research Institute / Partnering Institution
1	PCMC Water 24*7	Rhutika Patil, Saurabh Patil Ambika Birajdar	Pimpri Chinchwad Municipal Cooperation
2	Smart Vending Machine	Omkar Deshpande, Sughosh Pande, Anusha Sure, Sakshi Yelwande	Bitmap Technology, Narhe, Pune





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3	Smart Floor Cleaning Robot	Jayashree Chandgule, Shivani Khalekar, Poonam Deshmukhe,	Bit Map Technologies Narhe
4	Smart Insect Trap on Street Pole	Harshal Khachane, Dhiraj Bukan, Tanuja Patil	Pearl Automation Bhosari
5	Criminal Detection Drone	Prathmesh Bhoite Gideon Khandagale Sahil Mulani	Techofeast Solution Vadgaon Budruk Pune
6	IOT based Ship	Mira Biradar Aakanksha Sakhare Mohini Dhamale	Hi-tech industry Automation System
7	Hexacopter With Live Surveillance	Kishor Sortur Omkar Lukar Omkar Kadam Sanket Pandule	RKR Industries MIDC Chinchwad
8	Vehicle Traffic Analysis Using Video Processing	Sunil Jaybhaye Neha Bhalke Pankaj Chauhan	Bit Map Technologies Narhe
9	Entertainment Suggestions for handicapped and dumb people using EEG signals	Niraj Gangwani Akshay Rasal Tushar Memane	Neuro Master Tech, Thergaon
10	Solar powered floating waste collector	Shraddha Haveli Neha Pokharkhar Pranita Waghmare	Active Power Solutions





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11	Design and development of voice operated home automation using Google Cloud	Suraj Gavali Hrutik Barmukh Prajwal More	Automate Engineering, Narhe
12	Hexacopter With Message Scroller	Ganesh Jogdand Rakesh Gangapuri Ketan Gujar Krunal Hande	RKR Industries MIDC Chinchwad
13	Automatic T-Shirt Folding Machine	Rutuja Ghodake, Aishwarya Dhawale Abhishek Jagtap	Neuro Master Tech, Thergaon
14	The Quadcopter	Neeraj Deshmukh, Vivek Damre Sai Chikne	Techo feast Solution Vadgaon Budruk Pune
15	Fingerprint Based Door Lock System	Shubham Rahinj, Sarika Lohar, Tanaj Tamboli	Neuro Master Tech, Thergaon
16	Power Generation Using Piezo electric Sensors and Solar Energy	Prathmesh Pawar Pradyumya Dhavlekar Omkar Marne	Neuro Master Tech, Thergaon

➤ Industrial Visits

Sr. No.	Name of Industry / Company Research Institute / Partnering Institution	Date of Visit	Number of Student Participated
		NIL	

➤ Functional Memorandum of Understanding (MoU)



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Sr. No.	Name of Industry / Company Research Institute / Partnering Institution	Date of commencement	Duration
1	Cap Gemini	12/10/2021	5 years
2	Active Power Solutions, Pune.	10/12/2021	3 years
3	Automate Engineering, Narhe, Pune.	10/12/2021	3 years
4	Bit Map Technologies Narhe, Pune.	10/12/2021	3 years
5	Techofeast Solution Vadgaon Bk, Pune	10/12/2021	3 years

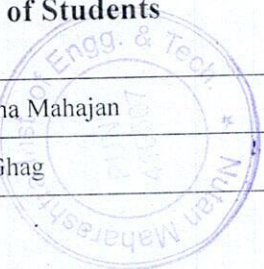
Section VII: Student Progression

➤ Placements

Sr. No.	Name of Students	Name of Company
1	Niraj Gangwani	Blueconch Technologies
2	SHUBHAM POPAT RAHINJ	Capgemini
3	Tanaj Anjum Tamboli	Capgemini
4	Neha Manik Pokharkar	Capgemini
5	Tanuja Patil	Capgemini
6	Neeraj Ravindra Deshmukh	Capgemini
7	Sughosh Prashant Pande	Capgemini

➤ Higher Education

Sr. No.	Name of Students	Name of Institution Admitted To	Name of Program Admitted To
1	Pratiksha Mahajan	NMIMS, Mumbai	MBA(ITSM)
2	Kajal Ghag	NMIMS, Mumbai	MBA(ITSM)





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3	Neha Joshi	DY Patil Vidyapeeth, Pune	MBA
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Section VIII Activity Conducted / Organized by Department

> Technical Event / Workshop for Students

Sr. No.	Name of Event / Workshop	Organized under (Department / Student Association / Profession Chapter / Student Club)	Date of Event	Level (University / State/ National / International)	Na. Of Participants
NIL					

> FDP / Workshop/ STTP/ Conference for faculty

Title	Faculty Name	Title off Journal	Year	District Level /State Level	Link
Exploratory Analysis of Kidney Disease Data Set—A Comparative Study	Dr.Sagar Joshi	Computational intelligence in data mining smart innovatation systems And Technologies Under Exclusive Lisence To Springer Nature Singapore 2022.	2022	Smart Innovation, Systems and Technologies,281, pp. 127–135	https://link.springer.com/chapter/10.1007/978-981-16-9447-9_10
An Armur Mimus Multimodal Biometric System for Khosher Authentication.	Dr Gayatri Ambadkar (Bokade)	SCOPUS (Elsevier). Web of Science, ACM,IET]	2022	Vol.34, No. 8	
Template security scheme for multimodal biometrics using	Dr Gayatri Ambadkar (Bokade)	Int. J. Biometrics	2022	Vol. 14, No. 2, pp.166–190	https://www.inderscienceonline.com/doi/abs/10.1504/IJBM.2022.121801



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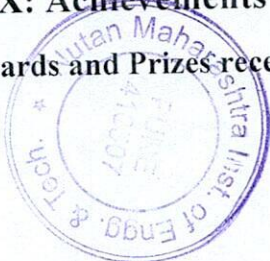
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data fusion technique					
Design and Analysis of a Voltage-Mode Non-Linear Control of a Non-Minimum-Phase Positive Output Elementary Luo Converter	Dr Satyajit Chincholkar	Electronics 2022, 11, 207.	2022	vol. 11, no. 2, 207, 2022	https://www.mdpi.com/2079-9292/11/2/207
Parameter Dependencies and Optimization of True Random Number Generator (TRNG) using Genetic Algorithm (GA)	Dr. Vilas Deotare, Lalit kumar Wadhwa	ICSCC 2021 CONFERENCE	2021	978-1-7281-9687-9/21/\$31.00 ©2021 IEEE	https://ieeexplore.ieee.org/abstract/document/9528264
Novel Architecture For 16*16 Binary Multiplications Using Redundant Technique	Dr. Vilas V Deotare	Design Engineering	2021	ISSN No: 0011-9342, Issue 7	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=ZYh0BFkAAAAJ&cstart=20&pagesize=80&citation_for_view=ZYh0BFkAAAAJ:qjMakFHDy7sC
Insect Classification and Alert System Using CNN	Dr. Vilas V Deotare	International Journal of Advances in Engineering Research	2022	e-ISSN: 2231-5152, p-ISSN: 2454-1796	https://ijaer.com/admin/upload/12%20Harshal%20Khachane%2001247.pdf

Section IX: Achievements

- Awards and Prizes received by students



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Sr. No.	Name of Student	Event Name / Details	Organized by	Achievement / Position / Prize
1	Parth Sawant	Power lifting	Pune district Zonal	First rank
2	Parth Sawant	Power lifting - 120Kg(Junior)(Representing Maharashtra State)	Madgaon ,Goa	Sixth rank

- Participation of teachers in various activities as members of committees at University level, State level, National level, International level bodies

Sr. No.	Name of Faculty	Members of committees at University level / State level /International Level as
		NIL

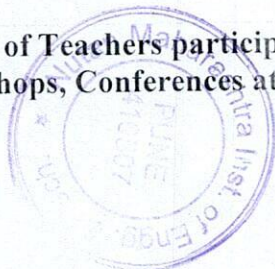
- Details of Teachers appointed/ Nominated on Editorial Boards / Reviewers

Sr. No.	Name of Faculty	Name of Editorial Boards/ Conference
		NIL

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

Sr. No	Name of Faculty	Name of Award
		NIL

- Details of Teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.





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Sr. No.	Name of Faculty	FDP/STTP/Workshop / Conference Title	Organized by	Duration (in days / weeks)
1	Bhagyashri A Warhade	One week ISTE approved FDP on "Research For Beginners"	Research	12/07/2021 - 17/07/2021
2.	Bhagyashri A Warhade	ONLINE STTP ON "AI/ML IN 5G COMMUNICATION TECHNOLOGY"	5G	21/06/21 - 26/06/21
3	Gayatri Ambadkar	Online Elementary FDP on "CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT"	INDUSTRIAL IOT	08/11/2021 to 12/11/2021
4	Gayatri S. Ambadkar	Online FDP ON research funding projects & IPR	Research & IPR	07/06/21 - 09/06/21
5	Gayatri S. Ambadkar	One week ISTE approved FDP on "Research For Beginners"	Research	12/07/2021 - 17/07/2021
6	Harsha Saroode	FDP On Research Funding & Patent filling	Research & Patent	25/10/2021 - 29/10/2021
7	Neeta Karhadkar	FDP On Research Funding & Patent filling	Research & Patent	25/10/2021 - 29/10/2021
8	Sagar V Joshi	Online FDP ON research funding projects & IPR	Research & IPR	07/06/21 - 09/06/21
9	Dr.Vilas Deotare	One week fdp on challenges and opportunities in VLSI & IOT Application	VLSI & IOT	21/6/21 - 25/06/21



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Declaration by HOD:

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

Date:

Head of Department

Recommendations:

Dean Academic's

External Auditor

External Auditor



Principal
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of Engg. & Technology
"Samarth Vidya Sankul" Vishnupuri
Talgaon Dabhade, 410507