

Criteria 7

7.2 Best Practices

7.2.1 Two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Two Best Practices Successfully Implemented by the Institution are as follows:

I: Bridging the Gap between Industry and Institute

II: Research and innovation ecosystem in the institution

Campus:

Plot No.- 46, Sector 5, Behind MSEB Sub-Station, Near Utsav Chowk, Kharghar, Navi Mumbai-410210 (Maharashtra, India).

Tel.: 022-27743706 / 07 / 08 / 09. Fax: 022-27743712. E-mail: registrarsaraswati@gmail.com

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Best Practice 1: Bridging the Gap between Industry and Institute

Objective of the Practice:

Most of the young people lack the necessary experience and skills to succeed in the market and corporate world. The skill set that is mostly demanded by recruiters/employers includes Soft skills, domain knowledge expertise, decision making skills, learning skills etc. We develop these skills set in the students

Objectives of the practice are

1. To make the students aware of the corporate culture by organizing guest lectures, Workshops, and training.
2. To provide requisite guidance, training and practice sessions to every student as per their future career interest.
3. Enhance students Communication skills through “Soft skills and Personality Development” Courses.
4. To prepare students for Placement, higher studies and entrepreneurship.

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5. Identifying suitable potential employers.


The Context

Given the Intense competition in the workplace, possessing employability skills continues to remain vital for the success of our students. Students with good skills tend to adapt to change easily by learning new concepts and methods. Every year eminent companies participate in the campus placements offering profiles that are preferred by students to enhance these employability skills, SCOE concentrates on developing various qualities in students. These included Communication skills, Leadership, Problem solving ability, teamwork, reliability, planning, organization, technology friendly and Initiative nature. To imbibe these qualities in the

students was the main task of the Training Cell of our college and accordingly a road map was

created to start the journey towards developing these skills. The training process was decided to be initiated right from the First year of graduation to make the students corporate ready. Providing theoretical knowledge along with practical concept of the course with latest development in the relevant core field was the need of the hour which was emphasized along with the soft skills and personality development

The Practice-



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SCOE believes in emphasizing following points to enhance employability skills staying updated with current technology Keeping abreast of technological changes is paramount to flourish in the industry. Keeping a regular track of the technologies needed is important. To enhance the skills of students and to expose them to real word challenges we have

1. **Huawei-ICT Partnership program**
2. -SCOE has signed an MOU with Huawei for Conduction of Technical courses and certification on emerging IT Technologies such as **artificial Intelligence, Cloud computing, Machine Learning, Routing & Switching.**
3. **Remote Centre of IIT Bombay** -SCOE has been identified as Remote Centre of IIT Bombay since 2018. To develop the learning abilities of students various workshops on technical subjects are delivered remotely. In addition to the technical subjects, programs like “College to Corporate” are also conducted by IIT using A-view software.
4. **-+; Personality Development Program**-Syllabus for Employability skills included Interview skills, Professional grooming ,Group Discussion, Debate, Extempore, Role play,Mock Interview, Quiz, Essay writing ,Grammar training ,Essay writing ,Office Etiquette ,Resume writing, confidence building are regularly conducted for students from 2nd year itself in soft skills training .”Nurture” is also conducted as an add on course to develop soft skill, communication and personality development.
5. Get acquainted with latest software’s Trainers are appointed to train students on latest technologies to bridge the gap between industry institutes.

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Engineering Programme	Technical Training	Research	Publication	
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6. **TCS (Ninja/Digital)/Capgemini/Wipro/Godrej/Infosys Placement Drive Preparation-**
To Prepare students for the placement drive and provide confidence ahead of the actual campus placement drive .Students comes to know what kind of questions asks in technical ,Managerial And HR interview rounds .time management and the process.
7. **Guidance from Industry-**MOU's are signed with various industries like Internshala. Interdisciplinary projects are undertaken so that students will be able to work in a multidisciplinary **environment**.
8. **Online-Test Series, Placement Practice session-Aptitude/Technical/GD-**To develop consistency in their study, to develop the concept and logic in the field of quantitative aptitude, logical and reasoning, learnt tricks in solving various quantitative problems Self-assessment.
9. **Python Training** for Third year students is conducted for all branches students regularly with **the help of efficient trainers**.
10. **Seminar to create awareness** about Opportunities for Mechanical/Civil Engineers in **Software/IT industry was conducted**.
11. **Guidance from Industry-**MOU's are signed with various industries like Internshala. Interdisciplinary projects are undertaken so that students will be able to work in a multidisciplinary environment.
12. Project Competitions (Avishkar) is conducted for Final year students every academic year.

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Engineering Programme	Technical Training	Research	Publication
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13. Technical fest is conducted every year for students to showcase their technical talents in conference papers, poster presentations, and various competitions relevant to their field in order to develop their presentation skills.
14. International Conferences on various upcoming technologies are conducted every year.
15. Project Based Learning had been a part of SCOE teaching culture from many years apart from syllabus, students are given various mini project to enhance their practical concept.
16. Study Abroad cell for higher studies -Students are also interested in pursuing higher studies abroad. The cell provided the students guidance on various universities courses,documentation, loan guidance, internships etc .The cell has MOUs with specific universities to help students related to internships ,research collaboration and student exchange program. The partners included Ural Federation University, Russia, AIMST University, Malaysia, University of Canberra, Australia, and Paris, France etc.

Sr no	Name of the Event/ Activity	Date of the Activity	Organizing club/dept.	Number of Students Participa	Collaborating Agency or department/ Resource	Type of event (Cultural/Tec hnical/Ethics &	Report with photo Link
							Note: All reports have to

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Engineering Programme				Technical Training	Research	Publication	
				ted	Person if applicable	value/Research & innovations/other)	upload on website first and provide the link for the same)
1	Sciative Solutions placement preparation	7th June 2023	Saraswati College of Engineering, Kharghar.	100	Mr. Adnan Shaukat Shaikh	Pre-placement training	https://engineering.saraswatikharghar.edu.in/wp-content/uploads/2023/06/sciative-placement-preparation-report_13_11zon.pdf
2	Minecraft drive - placement preparation guidelines	28th April 2023	Saraswati College of Engineering, Kharghar.	20	Mr. Rohan Patil	Pre-placement training	https://drive.google.com/file/d/1HQRqzd9dngVfIpre2AeUma1rvdCsFV1m/view?usp=sharing
3	Training Programme On JAVA	23rd December 2022 to 23rd January 2023	Saraswati College of Engineering, Kharghar.	91	Spoken tutorial Project at IIT Bombay	To learn Java.	https://engineering.saraswatikharghar.edu.in/wp-content/uploads/2023/06/training-program-on-java_11_11zon.pdf
4	Training Programme On PHP and Mysql	23rd December 2022 to 23rd January 2023	Saraswati College of Engineering, Kharghar.	44	Spoken tutorial Project at IIT Bombay	To learn PHY and MYSQL for web development and database management system packages.	https://engineering.saraswatikharghar.edu.in/wp-content/uploads/2023/06/php-Mysql_10_11zon.pdf
5	Training Programme On PYTHON	23rd December 2022 to 23rd January 2023	Saraswati College of Engineering, Kharghar.	107	Spoken tutorial Project at IIT Bombay	To learn Python and explore NUMPY, Panda etc.. Libraries	https://engineering.saraswatikharghar.edu.in/wp-content/uploads/2023/06/python-training-report_9_11zon.pdf
6	Employability Skills	16/01/2023,	Saraswati College of	46	Prof. Sima Singh	Pre-placement	https://engineering.saraswatikharghar.edu.in/wp-

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	Program	23/01/2023, 30/01/2023, 2/2/2023, 6/2/2023, 8/3/2023, 9/3/2023, 10/3/2023	Engineering, Kharghar.			training	content/uploads/2023/06/employability-skills-program 8 11zon.pdf
7	Employability Skills Program - IT	18/1/2023, 27/3/2023, 3/4/2023, 8/4/2023	Saraswati College of Engineering, Kharghar.	38	Prof. Sima Singh	Pre-placement training	https://engineering.saraswatiKharghar.edu.in/wp-content/uploads/2023/06/employability-IT-report 7 11zon.pdf
8	Employability Skills Program	17/1/2023, 24/1/2023, 31/1/2023, 6/2/2023, 7/2/2023, 9/2/2023, 10/2/2023	Saraswati College of Engineering, Kharghar.	53	Prof. Sima Singh	Pre-placement training	https://engineering.saraswatiKharghar.edu.in/wp-content/uploads/2023/06/employability-AIML 6 11zon.pdf

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9	Eduladder_Saraswati Interaction seminar (Student Career Development)	10/1/2023	Saraswati College of Engineering, Kharghar.	200	Mr. Kunal Pandit Prof. Vaishali Jadhav	Counselling	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2023/06/eduladder_5_11zon.pdf
10	Aptitude Training	8/3/2023 to 18/3/2023	Saraswati College of Engineering, Kharghar.	96	Mr. Anand Rao	Pre-placement training	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2023/06/22-23-Aptitude-Training-TE-COMP-IT-DS-AIML-COMP0001-2_4_11zon.pdf
11	Students TPO Employer Meet (STEM) 2023	13/4/2023	Saraswati College of Engineering, Kharghar.	100	Dr. Uttam Kolekar Dr. Ajit Marathe, Dr. Vinit Kotak, Dr. Manjusha Deshmukh, Prof. Vaishali Jadhav, Ms. Nalini Chaskar, Ms. Seema Khan	Counselling	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2023/06/11-STEM-Report_3_11zon.pdf
12	Python Training Program	31/01/2023 to 20/02/2023	Saraswati College of Engineering, Kharghar.	20	Prof. Kirti Pawar,	To provide Basic knowledge of Python.	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2023/06/extension-python-training_2_11zon.pdf

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13	Group Discussion	06/06/23-09/06/23	Saraswati College of Engineering, Kharghar.	60	Prof. Sima Singh	Pre-placement training	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2023/06/report-on-GD_1_11zon.pdf
14	Workshop on Cyber Security	8/12/23 to 10/12/23	Computer Department with Inflow Tech Pvt Ltd	COMP=14, AI=10, DS=4	Inflow Tech Pvt Ltd	Technical	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Training-workshop-on-Cyber-security-.pdf
15	Workshop on "Python with marvels"	15/1/24 to 19/1/24	Association of Computer Engineers (ACE)	26	Computer Department	Technical	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Workshop-on-Python-with-Marvels-15_1-to-19_1_24.pdf
16	Aptitude Python Training Program by Campus Credentials"	29/1/2024 to 6/2/2024	CSE-AIML	25	Mr. Vishwajeet Duppe and Mrs. Shruti Mishra	Training program	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/campus-credential-report-on-aptitude_4_11zon.pdf
17	"PYTHON Training Program by Campus Credentials"	07 to 16 Feb 2024 & 18 to 22 March 2024	CSE-AIML	25	Mr. Rafik Shah & Mr. Manish Thakur	Training program	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/campus-credential-python-training_11zon.pdf
18	"Scalar Certification Program in Python"	21/02/2024 - 28/02/2024	CSE-AIML	30	Prof. Dinesh Singh	Training program	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Scalar-certification-training-in-Python_23_11zon.pdf
19	"Scalar	21/02/2024	CSE-AIML	30	Prof. Dinesh	Training	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Scalar-certification-training-in-Python_23_11zon.pdf

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Engineering Programme		Technical Training		Research		Publication	
	Certification Program in Java"	4 - 28/02/2024			Singh	program	atikharghar.edu.in/wp-content/uploads/2024/05/Scaler-Certification-program-in-Java_22_11zon.pdf
20	"Java Training Program by Campus Credentials"	18.06.2024 to 28.06.2024	CSE-AIML	34	Mrs.Unnati Chaudhari & Mr. Akash Satedeve	Training program	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Java-CC-training-june-2024_13_11zon.pdf
21	"Aptitude Java Training Program by Campus Credentials"	03.06.2024 to 14.06.2024	CSE-AIML	34	Mr. Vishwajeet Dhuppe & Mrs. Shruti Mishra	Training program	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Aptitude-CC-training-June-2024_1_11zon.pdf
22	Training Program on Advanced Java	01.01.2024 to 05.01.2024	Saraswati College of Engineering, Kharghar.	13	Prof. Kirti Pawar, Assistant Professor	Technical	https://drive.google.com/file/d/13X3pp9gdIP9pdet-xLJ1NI_dVEsFnwGm/view?usp=sharing
23	Training Program on Data Structure	06.12.2023 to 15.12.2023 & 01.01.2024 to 05.01.2024	Saraswati College of Engineering, Kharghar.	60	Prof. Reetu Jain & Prof. Dashrath Magar, Assistant Professor	Technical	https://drive.google.com/file/d/1qARb1C81YUCM2mcyCf-g57Z45vNHoSE9/view?usp=sharing
24	Training Program on Java	06.12.2023 to 22.12.2023	Saraswati College of Engineering, Kharghar.	35	Prof. Dashrath Magar, Assistant Professor	Technical	https://drive.google.com/file/d/1_DPXR0C1CkgYK4x7h5z1K4y6CUua4v/view?usp=sharing
25	Session for Aptitude and Technical test	06.12.2023	Saraswati College of Engineering & Campus Credentials	85	T & P Team	Aptitude and Technical	https://drive.google.com/file/d/1rP9rP4uzewAg-lk2mgvBO0QlowZAcnmJ/view?usp=sharing

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26	Awareness program by Linkdin & AFH	28/12/2023	SCOE Kharghar & MaTPO & Aspire for her foundation in association with LinkedIn	30	Mrs. Ruchika Jadhav and Mrs. Alpana Sampson	Career guidance session	https://drive.google.com/file/d/17b4VXZT0tr59XwSb06qhXUnJfPnJGUax/view?usp=sharing
27	Career guidance program for Mechanical Engineers in Marine Engineering by Expert	9/1/2024	Saraswati College of Engineering, Kharghar.	25	Prof. Akash Choudhary, Institute of Maritime Studies Goa	Career guidance session	https://drive.google.com/file/d/1j0QretMwlqnK3a8qrYAYgkI2tB0Fp6qF/view?usp=sharing
28	Session on "placement requisites and preparation"	18.01.2024	Saraswati College of Engineering, Kharghar.	229	Mr. Vinay Raikar	Career guidance session	https://drive.google.com/file/d/1R-FJXVWPCiGSiHnG90EJfnA04UVHefx_/view?usp=sharing
29	Java Training Program	07.02.2024 To 16.02.2024 & 18.03.2024 To 22.02.2024	Saraswati College of Engineering & Campus Credentials	41	Mr. Ashish Gadpayle, Mr. Ronak Mitra & Mr. Prashant Jha	Technical	https://drive.google.com/file/d/1ySWaWzhr4CiHqD6ZyoDD1vHLB1cJVLpM/view?usp=sharing
30	Python Training Program	07.02.2024 To 16.02.2024 & 18.03.2024 To 22.02.2024	Saraswati College of Engineering & Campus Credentials	48	Mr. Rafik Shah & Mr. Manish Thakur	Technical	https://drive.google.com/file/d/1_RV0etAK_WEQGVliFTe3kw2Ae1yRkVl9/view?usp=sharing
31	Aptitude Training	23.01.2024 To	Saraswati College of	83	Mr. Vishwajeet Dhupe &	Aptitude Training	https://drive.google.com/file/d/1SkWa2Jf54Lrjb5nvZsoD

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		06.02.2024	Engineering & Campus Credentials	Mrs. Shruti Mishra	cVtKLwFuzIrc/view?usp=sharing		
32	Aptitude Training	03.06.2024 To 14.06.2024	Saraswati College of Engineering & Campus Credentials	75	Mr. Vishwajeet Dhube & Mrs. Shruti Mishra	Aptitude Training	https://drive.google.com/file/d/1FE2FwtZfj1lq1PdPyPLRqbUI06DibSpx/view?usp=sharing
33	Java Training Program	18.06.2024 To 28.06.2024	Saraswati College of Engineering & Campus Credentials	67	Mr. Akash Satedeve & Mrs. Unnati Chaudhari	Technical	https://drive.google.com/file/d/1W_af7gynoRdJ3r2GYb-G8QpjllWCFVb1/view?usp=sharing

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Best Practice 2: Research and innovation ecosystem in the institution

Title:

Creating a Research and innovation Ecosystem to nurture research culture amongst the students and faculty.

Objectives:

1. To motivate students and faculty to conduct research projects and publish their research output in reputed national and international journals/ conferences.
2. To encourage students and faculty for patent publication in order to safeguard their research output, design or process.
3. To encourage students to participate in research activities, project presentations and project competitions, start-ups, etc.

Context:

Teaching and Research are the main functions assigned to any institute. Teaching is a prime function and needs to be performed at the highest level of competence; that is possible only when the faculty is also involved in the research activity.

Research essentially nourishes the academic program and such engagement helps teachers to remain at the cutting edge, with advances in their own subject. It also

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sustains the interest in academic activities and widens the scope of learning. Importantly, it helps the institute to stand at the global level.

Practice:

1. The institute has established R & D cell to encourage students and faculty to publish their research output in national and international journals/ conferences. Workshops and seminars are conducted regularly to guide students on writing effective research paper. This has resulted in increased confidence in students in writing research papers and participating in oral and poster presentations in conferences. R & D Cell motivates faculty members to write and submit effective research proposals to various Government/ non- govt. funding agencies.
2. Awareness program and seminars on Intellectual Property Rights, patent filing, patent hearing, and patent examination is organized by R & D Cell from time to time to increase awareness on the process of patent filing. This has resulted in an increased number of patent publications.
3. In order to promote research culture, the college encourages students to participate in various research activities, start- ups, project presentations and project competitions at intercollegiate as well as national level. Students participate and get exposure to good research work going on in their areas of interest. The institute has established an Entrepreneurship Development Cell for Innovations and Incubation (EDCII) to organize the entrepreneurship talk/seminars and nurture startups.

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Evidence of success:

Total number of paper publications till 2023-24 is 834. Students have participated in various conferences for poster presentation and oral presentation. Institute has received several research grants from reputed organizations like BRNS, IEL and University of Mumbai. Total 44 research projects have been sanctioned in the last 7 years. Many project proposals have been submitted to funding agencies.

Sr no	Name of the Event/Activity	Date of the Activity	Organizing club/dept.	Number of Students Participated	Collaborating Agency or department / Resource Person if applicable	Type of event (Cultural/Technical/Ethics & value/Research & innovations /other)	Report with photo Link Note: All reports have to upload on website first and provide the link for the same)
1	Online Workshop on “Seeking Govt. funding grants from various Govt. Agencies	13/06 /2023	R & D Cell	19	Resource person: Dr. Anant Ram, Former UGC Official	Technical	https://drive.google.com/file/d/1DB4OPv2F0zNwdQyogGP0Zr_mGKclKVyp/view?usp=sharing
2	Seminar On "Awareness	27/07/ 2022	R & D	152	NIPAM	Technical	https://drive.google.com/file/d/194q24JL9xg

Engineering Programme		Technical Training		Research		Publication	
	Program on Intellectual Property Rights" program under NIPAM		Cell				yLrA4P7t24oEyPKeaBvhUS/view?usp=sharing
3	AVISHKAR 2023	03/04 /2023	R & D Cell	737	-	Technical	https://drive.google.com/file/d/1GXIQc5Mq3Mnl-RwaJ17E3BxU8jwK8We1/view?usp=sharing
4	National Conference on Innovation in Civil Engineering (NCICE-2023)	06/04 /2023	R & D Cell	218	-	Technical	https://drive.google.com/file/d/1UzAM3pBMJBQ0Gllr4d9Oy1RkkDeWof9R/view?usp=sharing
5	National Conference on Research Avenues in Mechanical and Automobile Engineering	06/04 /2023	R & D Cell	212	-	Technical	https://drive.google.com/file/d/1AAL0uwM7-MwemAoli1jljyZrpB9fUWw8/view?usp=sharing
6	National Conference on Recent Innovative Trend in Computer	06/04 /2023	R & D Cell	171	-	Technical	https://drive.google.com/file/d/1p1E9YWvDG5sbjiYxV-RlzddPuLa7wJoc/view?usp=sharing

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Engineering Programme	Technical Training	Research	Publication					
	Engineering and Information Technology (CRITCEIT-2023)							
7	Webinar on "Basics of Patent Drafting and Filing".	02/09/2023	R & D Cell	82	Ms. Monika Garg , Partner and Patent Agent in Aksh IP Associates, Noida, Uttar Pradesh	Research and Innovation	https://drive.google.com/file/d/1tM-yBJ0hxaVQfINRnb3wtzLWI6QPJL24/view?usp=sharing	https://engineering.saraswatikharghar.edu.in/wp-content/uploads/2024/05/Scanned-report_02092023_11zon.pdf
8	Intellectual Property Rights (IPRs) and IP management for start-up	27/06/2024	R & D Cell	60	Mr. Govind Sharma Ex. Chief, National Research Development Corporation, An enterprise of DSIR, Ministry of Science & Technology, Govt. of India, New Delhi Ms. Nekita Kumari NIPAM Officer, Examiner of	Technical/ Research and Innovation	https://drive.google.com/file/d/1IU4cyiAnO63IEulwIO1OZjRjAZNoQPR_/view?usp=sharing	https://engineering.saraswatikharghar.edu.in/wp-content/uploads/2024/05/report-with-attendance-IPR-IP_workshop_11zon.pdf

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	Engineering Programme	Technical Training	Research	Publication				
					Patents and Designs			
9	AVISHKAR 2024	05/04/2024	R & D Cell	811	<p>Dr. Jyoti Wadmare Assistant Professor, Computer Engineering Department at K.J.Somaiya institute of Technology</p> <p>Mr. Hitesh Dadhich Team Lead at IBM Mumbai</p> <p>Prof.Dr.chandrashekar choudhari Associate professor and HOD Terna college of engineering</p> <p>Dr. Padmakar Salunkhe, HOD, Civil Engg, MGM College of Engineering,</p>	Research and Innovation	https://drive.google.com/file/d/1kd91sCeI3kcYnBZzfF9P-aofbuaPRynw/view?usp=sharing	https://engineering.saraswathikharghar.edu.in/wp-content/uploads/2024/05/new-Avishkar-report-scanned_11zon.pdf

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Engineering Programme					Technical Training	Research	Publication	
					Kamothe Prof. Mohini Barahate , HoD Dept. of Automobile Engineering, Muchala Polytechnic, Thane			
10	STTP on "How to write and publish Research paper"	12/03/2024-15/03/2024	R & D Cell	272	Dr. Sheetal Bukkavar, Dr. Saumya Singh, Dr. Paramjit Thakur, Dr. Ritu Jain, Dr. Prashant Ingle	Research and Innovation	https://drive.google.com/file/d/1AIQwKEUNkdZkD8Bz2UqmyCeaEzzJpd8/view?usp=sharing	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/Scanned_STTP-report_11zon.pdf
11	Seminar on Occassion of "Intellectual Property Day"	26/04/2024	R & D Cell	50	Dr.Sonali Jadhav	Research and Innovation	https://drive.google.com/file/d/1M_yc0c2-EZd_AmLV9AtNeGqAet86yK7/view?usp=sharing	https://engineering.saraswatiikharghar.edu.in/wp-content/uploads/2024/05/IPR-day-report_11zon.pdf

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