

SINHGAD INSTITUTE OF TECHNOLOGY

(Affiliated to Savitribai Phule Pune University and Approved by, AICTE, New Delhi.) Gat No. 309/310 ,Kusgaon (Bk), Off Mumbai –Pune, Expressway.

Lonavala, Pune, 410401, Website: sit.sinhgad.edu

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

ICT/Computing Skills

S.No	Item	Page NO
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Summary of ICT/Computing Skills

ICT skills are essential for engineering students as they enable them to design, test, and make changes to products in minimal time. ICT skills also allow engineering students to collaborate with peers and experts, design products, collect and analyze performance data, and build products. The use of ICT can enhance both the practical and theoretical aspects of STEM teaching and learning. In addition, ICT skills can help engineering students develop problem-solving skills, critical thinking skills, and communication skills. These skills are essential for success in the engineering field.

4. ICT/Computing Skills							
	A.Y 2023 - 2024						
Name of the capability enhancement program	enhancement (DD-MM-YYYY) students enrolled agencies/consultants involve						
STP-3	10/07/2023 to 20/10/2023	347	Prof.S.M. Gaikwad,				
STP-4	11/12/2023 to 12/04/2024	347	9321003912				



Sinhgad Technical Education Society's SINHGAD INSTITUTE OF TECHNOLOGY

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Department of Electronics and Telecommunication Engineering

EVENT NO:-	
Title:	Student Training Program III (STPIII)
Date:	From 27/9/2022 to 01/11/2022 weekly activity.
Day:	Tuesday.
Venue:	Class room no. B204, B205, B206
Time:	3:00 pm to 5:00pm
Staff Co-coordinator:	Prof. S.S.Patil
Student coordinators	
Event Conducted Under:	Student Training Program
Activity Type:	Co-curricular
Target Group:	TE (E&TC) All divisions.
Outcome of Program	Staff and Students of school are be able 1. To Develop problem solving and Logical thinking skills 2. To implement problem solving and logical thinking skills to solve real life problems using data structures and Object Oriented programming.

Brief Summary about Activity: This activity was the part of Student training program. It is preparation towards placement of the students by developing problem solving and logical thinking skills to solve real life problems. This program was divided into 5 modules and four faculties (Prof. S.S. Patil, Prof. A.A. Labade and Prof. V. S. Bari and Dr. D. S. Mantri) were involved in this activity to execute total 15 sessions for 3 divisions of T.E. (E&TC), All sessions were interactive and students were also responsive.

Photos of activity:.







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SINHGAD TECHNICAL EDUCATION SOCIETY'S SINH GAD INSTITUTE OF TECHNOLOGY, KUSGAON (BK.), LONAVALA DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

STP III Schedule ACADEMIC YEAR 2023-24 SEM-I

Division Module Date Day Time Mo dule Name of Faculty Sign Module 1 18-Sep-23 Monday 10: 45am-12.45pm Programming Skills-DSA Prof. A.A.Labade Module 2 25-Sep-23 Monday 10: 45am-12.45pm Programming Skills-DSA Prof. A.A.Labade TE A(B204) Module 3 2-Oct-23 Monday 10: 45 am-12.45 pm Programming Skills-OOP Prof. A.A.Labade Module 4 9-Oct-23 Monday 10: 45am-12.45pm Problem solving techniques Prof. S.S.Patil Module 5 16-Oct-23 Monday 10: 45 am-12.45 pm L ogic Development Prof. V.D. Raskar Module 1 15-Sep-23 Friday 1:45pm-3.00pm Programming Skills-DSA Prof. A.A.Labade Module 2 22-Sep-23 Module 3 29-Sep-23 Module 4 7-Oct-23 1:45pm-3.00pm Programming Skills-DSA Friday Prof. A.A.Labade 1:45pm-3.00pm Programming Skills-OOP 1:45pm-3.00pm Problem solving techniques Friday Prof. A.A.Labade Friday Prof. S.S.Patil Module 5 14-Oct-23 Friday 1:45pm-3.00pm Logic Development Prof. V.D. Raskar



Prof. S.S.Patil (STP Coordinator)



Prof. D.D. Chaudhary (HOD E&TC)



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TE ROLL CALL LIST

Div-A

	1	STP Attendan	ce					
Sr. No	Roll No	Name of the student						
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3	TETA03	JADHAV OM VIJAY	(Pa)	ind (Mi	alax	Possi	Row 12 9
4	TETA04	WANGE SHRINIVAS DHARMARAJ		275	2	The x	351	gway
5	TETA05	SALENA JAIRAJ SALENA	To	277	ON	Cox	>	0
6	TETA07	JAWALE SONAM VIKAS	1,	3 -	3/25	1-5	5.5	1-125
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14	TETA16	RAUT RUSHIKESH DIWAKAR	freu	0	pot			
15	TETA17	DHUMAL ROHIT NAVIN	Phin	AR	mel			
16	TETA18	AGADALE KRANTI VUAY	France	1 Bu	welst	Aunt	2/2	Levels
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18	TETA20 P	PARKHE OM PANKAJ						
19	TETA21 S	HIRBHAYYE AYUSH SHARADKUMAR	(A) LHO	16/1	hart	Dout	60	Jush
20	TETA22 B	HOSALE SHARDUL SANJAY		3		<u></u>		
21	TETA23 B	HANDARWAR SHREYASH CHANDRASHEKHAR	200	(Y)		800	1	Suc
22	ТЕТА24 С	HAVHAN ANUSHKA SURESHSING	100	1	II-	XIII	-	JAA
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SINUGAD INSTITUTE OF TECHNOLOGY, KUSGAON (BK.), LOSIAVALA DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGG, ACADEMIC YEAR 2021-24 Sen 1 3 TP. 3

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TE ROLL CALL LIST

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Department of Information Technology

ACADEMIC YEAR 2023-24 SEM II

Vision and Mission of Institute

VISION

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटीबध्दाः वयम्।

We are committed to produce not only good engineers but good human beings, also.

MISSION

- Holistic development of student and teacher is what we believe in and work for.
- We strive to achieve this by imbibing a unique value system, transparent work culture, excellent academic and physical environment conducive to learning, creativity and technology transfer. Our mandate is to generate, preserve and share knowledge for developing a vibrant Society.

Vision and Mission of Department

VISION

The department of IT visualizes teaching-learning methodologies to create groomed, technically competent, skilled intellectual IT professionals to achieve the challenges of dynamic needs of local as well global industry and professional community.

MISSION

- The department offers an inviting, nurturing, and challenging environment for self-learning, which is responsive to the intellectual, social and cultural needs of a diverse learning community.
- The success of the department is reflected in well-being of its alumni, who are known for their leadership, adaptability, and commitment to high professional standards.

Short Term Goals

- To continuously upgrade existing resources through qualified and experienced faculty and state of the art laboratories.
- To strengthen the institute-industry relationship for mutual benefits.
- To initiate value addition programs and certification examinations for life skills development
 of students.
- To establish project-based learning model for real life learning to improve academic performance of students and maintain high placement record.



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Department of Information Technology

Long Term Goals

- To provide dynamic curriculum to meet the requirements of industries.
- To strengthen patent-based research and product development efforts for supporting indigenous market.
- To foster research in the field of Information Technology for the benefits of society.
- To create better entrepreneurs in the IT Sector.

Program Educational Objectives: PEOs

- I. Possess strong fundamental concepts in mathematics, science, engineering and Technology to address technological challenges.
- II. Possess knowledge and skills in the field of Computer Science and Information Technology for analyzing, designing and implementing complex engineering problems of any domain with innovative approaches.
- III. Possess an attitude and aptitude for research, entrepreneurship and higher studies in the field of Computer Science and Information Technology.
- IV. Have commitment to ethical practices, societal contributions through communities and lifelong learning.
- V. Possess better communication, presentation, time management and teamwork skills leading to responsible & competent professionals and will be able to address challenges in the field of IT at global level.
- VI. Possess strong fundamental concepts in mathematics, science, engineering and Technology to address technological challenges.
- VII. Possess knowledge and skills in the field of Computer Science and Information Technology for analyzing, designing and implementing complex engineering problems of any domain with innovative approaches.
- VIII. Possess an attitude and aptitude for research, entrepreneurship and higher studies in the field of Computer Science and Information Technology.
- IX. Have commitment to ethical practices, societal contributions through communities and lifelong learning.

Possess better communication, presentation, time management and teamwork skills leading to responsible & competent professionals and will be able to address challenges in the field of IT at global level.

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Department of Information Technology

Program Specific Outcomes: PSOs

- 1. To provide a platform to the scholars for software development with new innovative multidisciplinary approach to serve the industry needs.
- 2. Apply ethical principles and plan to professional ethics and responsibilities and norms of the engineering practice.
- 3. To apply mathematical methodologies to unravel the real-world problems using appropriate mathematical analysis, arrangement and efficient computer algorithms.
- 4. To provide effective and efficient knowledge of recent technologies like web technologies, data science, machine learning, AI, Cyber security and IOT etc.

Program Outcomes: POs

POs are statements that describe what students are expected to know and be able to do upon graduating from the program. These relate to the skills, knowledge, analytical ability attitude and behavior that students acquire through the program.

- a. An ability to apply knowledge of mathematics, computing, science, engineering and technology.
- b. An ability to define a problem and provide a systematic solution with the help of conducting experiments, analyzing the problem and interpreting the data.
- c. An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints.
- d. An ability to identify, formulate, and provide systematic solutions to complex engineering/Technology problems.
- e. An ability to use the techniques, skills, and modern engineering technology tools, standard processes necessary for practice as a IT professional.
- f. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems with necessary constraints and assumptions.
- g. An ability to analyze and provide solution for the local and global impact of information technology on individuals, organizations and society.
- h. An ability to understand professional, ethical, legal, security and social issues and responsibilities.

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Department of Information Technology

- i. An ability to function effectively as an individual or as a team member to accomplish a desired goal(s).
- j. An ability to engage in life-long learning and continuing professional development to cope up with fast changes in the technologies/tools with the help of electives, professional organizations and extra-curricular activities.
- k. An ability to communicate effectively in engineering community at large by means of effective presentations, report writing, paper publications, demonstrations.
- l. An ability to understand engineering, management, financial aspects, performance, optimization and time complexity necessary for professional practice.
- m. An ability to apply design and development principles in the construction of software systems of varying complexity.

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TITLE: STP -IV: STUDENT TRANING PROGRAMME FOR ACADEMIC YEAR 2023-24

Date : 2 Feb 2023 to 23 Feb 2024

Day: Friday

Venue : F-202

Time : 10.45am-12.45pm

Staff Coordinator : Prof.Anuradha P Kulkarni

Event Conducted Under: Department of Information Technology

Activity Type : Student Training Program

Target Group : All TE Students of Information Technology Department

Brief Summary about Activity: "To enrich quality of students by empowering them in research with TECHNICAL PAPER WRITING"

- 1. Program to be implemented for T.E. students
- 2. Program to be a coordinated efforts of all the staff members working in dept.
- 3. Students undergone through the three search modules like Research why & how, Literature Review and Technical writing.
- 4. To be implemented in 6th semester.
- 5. Training on Technical paper writing skills

Results of the activity:

STP-4 stands for the "Student Training Program" and this module is to nurture the research among the students. Faculty member are allocated to each module. They explain students about research why and how, how to do literature review and explain technical writing.



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Schedule of STP-IV

	STP-IV (TEIT) Sem-II A.Y. 2023-24 Schedule							
Session No.	Name of Module	Faculty Name	Day	Date	Time			
1	Session-1 Research How & When	Prof.V.P.Tonde	Friday	02/02/2024	10.45 am to 12.45pm			
2	Session-2 Literature	Dr.P.C.Latane	Friday	09/02/2024	10.45 am to 12.45pm			
3	Session-3 Technical Writing	Prof.S.D.Bhopale	Friday	23/02/2024	10.45 am to 12.45pm			

STP Coordinator Prof.A.P.Kulkarni LONAVALA 418401

Dr.R.V.Babar HOD,IT



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Sample PPTS



Research Methodology: Session 1

RESEARCH: WHY & HOW



Research

- Research is a approach to obtaining and confirming new and reliable knowledge
- In simple words, research is "a search for knowledge"
- Research is systematic and orderly (following a series of steps)
- \bullet The purpose of research is $\underline{\text{new}}$ knowledge, which must be reliable

Research is

- Searching for explanation of events, phenomena, relationships and causes
 - What, how and why things occur
 - × Are there interactions?
- A Process
 - Planned and managed to make the information generated credible
 - The process is creative
 - It is circular always leads to more questions



Research Methodology: Session 2

LITERATURE REVIEW

Literature Review

A literature review is a critical analysis of existing research related to a specific topic

This leads to clarity on, state of knowledge, as well as, gap/s in the knowledge

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Literature Review

- Review of existing literature is a one of the essential preliminary task when undertaking research work
- Review of literature can be time consuming as well as frustrating at times
- However, review of literature is rewarding for following reasons:
 - it is the platform on which argument (in turn the research problem) is built, research is justified and it is demonstrated how research improves the chosen discipline

Justification of Research



Literature review leads to justification of research

- Helps showing that there are gaps in knowledge in field that merit a closer investigation
- Demonstrate that proposed research work will fill this gap by adding knowledge in and understanding of field
- · Demonstrate that proposed work hasn't been previously done
- · Ensures intellectual contribution is indeed original
- Demonstrates that theories or methodologies in the field have been critiqued
- Helps justify the arguments related to the proposed research problem



Research Methodology: Session 3

Rules in Technical Writing



- Always write in 3rd Person
- O Do not use I, We, You, Us, They etc...
- Make appropriate use of the Tense
 - O Present, Past, Future
- · Make appropriate use of Articles
- o a / an to be used when writing about generic
- o the to be used when writing about specific

TECHNICAL WRITING

Rules in Technical Writing



- Keep the sentence, short.
- · Divide a write up on a page into multiple paragraphs
- Make sure that there is a flow in the write-up
 - o Sentence 2 should connect with sentence 1
 - O Paragraph 2 should connect with paragraph 1
 -And so on
- Use appropriate technical language

Why Write a Report

- Research work remains incomplete till report is written & presented and/ or published
- Research findings are of little value unless they are effectively communicated
- Writing of report is the last step in a research study and requires a set of skills somewhat different from those called for in respect of the earlier stages of research
- Report writing must be accomplished by the researcher with utmost care; he may seek the assistance and guidance of experts for the purpose
- Not everyone is a born writer



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Sample Photographs

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(Affiliated to Savitribai Phule Pune University, Pune and Approved by, AICTE, New Delhi.) Gat No. 309/310 , Kusgaon (Bk), off Mumbai –Pune, Expressway.

Lonavala, Pune, 410401, Website : www.sinhgad.edu

Department of Information Technology

Attendance:-

Sr.	Roll	Name of Student	STP(3)
No.	No TIO1	VIII VADNII CALIDADII CLINIII	
2	TI01	KULKARNI SAURABH SUNIL KUSALKAR SHUBHAM ASHOK	2
3	TI03	AGRAWAL VIDIT VIKAS	2
4	TI04	NIKAM DURGESH ANIL	1
5	TI05	PATIL BHUSHAN AJAY	2
6	TI06	GHODKE MAYUR DINKAR	1
7	TI07	KHARATE ROHAN PRAMOD	1
8	TI08	PATIL SAIRAJ GANESH	1
9	TI09	PATIL ROHAN MAHESH	2
10	TI10	JADHAV ANIL BALAJI	1
11	TI11	DANDAGE PRATHAMESH MANOHAR	2
12	TI12	MOHITE PRATIK UMESH	2
13	TI13	BHISE ADITI VILAS	3
14	TI14	MARATHE SAKSHI RAMESHRAO	3
15	TI15	THUBE PRANALI JAGANNATH	2
16	TI16	PATIL RESHMA JAGDISH	2
17	TI17	CHAUDHARI SHREYA SACHIN	3
18	TI18	MORE AKSHADA THAKAJI	3
19	TI19	KADAV SHRAVANI VIJAY	2
20	TI20	ADMUTE KIRTESH SATISH	1
21	TI21	AMRUTKAR PRITESH PRAMOD	2
22	TI22	LAKADE MANGESH BHIMRAO	1
23	TI23	SHAHANE ADITYA ANAND	1
24	TI24	BHALEKAR VAISHNAVI SURESH	3
25	TI25	WABLE KARN BALASAHEB	1
26	TI26	GAWADSE OM AMAR	1
27	TI27	KAKKOTH AKSHIT ANILKUMAR	2
28	TI28	POTLE ROHAN RAMESH	1
29	TI29	PARDESHI ANIKET SANJAY	1
30	TI30	NAVALE PURVA SHAMKANT	2
31	TI31	SATAO SUMIT SUNIL	1
32	TI32	KANADAJE GANESH VITTHAL	3
33	TI33	NIKAM JAYDEEP SAMBHAJI	3
34	TI34	TAKALE VIKAS RAMDAS	3
35	TI35	KULKARNI PRANAV HARIHARRAO	1
36	TI36	PAWAR KALPESH SHIVAJI	1
37	TI37	SAYYAD AKDAS MOHAMMADALI	1
38	TI38	GAWALI SACHIN VINOD	0
39	TI39	BHANGALE TEJAS BALIRAM	1
40	TI40	SAWANT OMKAR ADHIKRAO	1
41	TI41	MONDE PRIYANKA SANJAYKUMAR	3
42	TI42	JADHAV SADASHIV TANAJI	3
43	TI43	TAYDE PRAJWAL RAVINDRA	2
44	TI44	GHULE SHWETA MADHUKAR	0
45	TI45	GORE ABHINAV RAOSAHEB	2



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46	TI46	KOLEKAR ANKITA AJAY	0
47	TI47	SATHE TRISHNA RAMESH	3
48	TI48	OHOL PRAFULLATA YASHWANT	1
49	TI49	KASU SAMARTH MAHADEV	1
50	TI50	RAUT VAISHNAVI AJINATH	1
51	TI51	NALAWADE NIKHIL NAVNATH	1
52	TI52	GITE ABHISHEK SURESH	0
53	TI53	PATIL OM DEVENDRA	1
54	TI54	PATIL YUTIKA SANJAY	1
55	TI55	PATLE ANKIT KANHAIYALAL	2
56	TI56	BATRA PARAS VISHAL	1
57	TI57	AMBEKAR SAISAGAR RAMESH	1
58	TI58	BIRADAR HARSHADA UMAKANT	3
59	TI59	PATIL VIRAJ SHASHIKANT	0
60	TI60	BANDGAR TUSHAR BHAUSAHEB	0
61	TI61	PATIL ARYA SHASHIKANT	0
62	TI62	SHIRKE PRATHAMESH KAILAS	0
63	TI63	RAUT ANISHA ANIL	0
64	TI64	JAGTAP VISHWAJEET PRAMOD	1
65	TI65	PALVE SNEHAL SANJAY	1
66	TI66	KHOBARE MUGDHA GOVARDHAN	0
67	TI67	AHIRE UDAY SANDEEP	3
68	TI68	SARKATE AAMRAPALI RAHUL	2
69	TI69	VAIDYA SANKET GAJANAN	1
70	T170	DANDWATE SOURABH VINAYAK	0
71	TI71	PAWAR VEDANT RAJENDRA	0
72	TI72	KATKADE VIVEKANAND SANJAY	2
73	TI73	PALVE OMKAR NARAYAN	0
74	TI74	NIGHUT NISHANT PRADIP	0

Prof.Anuradha P Kulkarni STP Coordinator

Dr. R.V. Babar HOD IT