

**STUDENT TRAINING
PROGRAM - IV**

Academic Year 2020-21 SE Semester –IV
Student Training Program-IV

NOTICE

Date: 15/02/2021

All the TE Div. A and B Students of Civil Engineering Department are hereby informed that, “Student Training Program-IV” is scheduled from 25/02/2021 to 16/04/2021. Attendance is compulsory. All the sessions will be conducted on Microsoft Teams Online Mode.

Details of the Student Training Program –IV is as below:

Module No.	Name of Module	Date of conduction	Time
1	Research Why & How	25/02/2021 04/03/2021	2.15 PM -4.15 PM
2	Literature Review	12/03/2021 25/03/2021	2.15 PM -4.15 PM
3	Technical Writing	08/04/2021 16/04/2021	2.15 PM -4.15 PM



Prof. Rahul Shinde
STP-IV Coordinator



Prof. Sneha S. Bhende
Department STP Coordinator



Dr. Pratibha M. Alandkar
Head of Department



LIST OF BENEFICIARIES



Sinhgad Institutes

Sinhgad Technical Education Society
RMD SINHGAD TECHNICAL INSTITUTES CAMPUS

(Approved by AICTE & Affiliated to Savitribai Phule Pune University, Pune)

Off.: S. No. 111/1, Warje, Pune-Mumbai Bypass Highway, Pune – 411 058.

Phone: 020-29996622/33 E-mail: principal.rmdssoe@sinhgad.edu Website: rmdstic.sinhgad.edu

Department of Civil Engineering

Academic Year 2020-21

Student Training Program

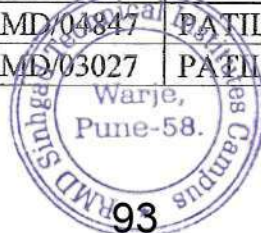
Students Enrollment List

Class- TE A

STP IV

Semester-IV

Sr. No.	Roll No.	UID NO.	Name of Student
1	A-001	1920/WRMD/04725	BANSODE MAYURI RAJENDRA
2	A-002	1920/WRMD/04881	MAGAR YOGESHWARI RAJESH
3	A-003	1920/WRMD/04894	BORULE GEETANJALI YADAV
4	A-004	1920/WRMD/04856	CHATE ANISHA MADHUKAR
5	A-005	1718/WRMD/03088	CHAVAN AKANKSHA ANIL
6	A-006	1718/WRMD/02944	CHEKE SHRUTIKA SANJAY
7	A-007	1718/WRMD/02824	CHITALE ESHA DEEPAK
8	A-008	1920/WRMD/04992	CHOURE TEJSHREE BAJIRAO
9	A-009	1415/WRMD/00378	DHAINJE BHAGYASHRI RAJU
10	A-010	1920/WRMD/05027	GAIKWAD MAYURI VENKATRAO
11	A-011	1718/WRMD/02714	GAIKWAD RAGINI NANASAHEB
12	A-012	1819/WRMD/03939	GORE SAYALI SANJAY
13	A-013	1718/WRMD/02816	GORE SNEHAL DATTATRAY
14	A-014	1920/WRMD/04890	GORE TEJASWINI KALYAN
15	A-015	1617/WRMD/01627	GOVEKAR SHIVANJALI APPASAHEB
16	A-016	1920/WRMD/04924	JADHAV SHWETA KAKASAHEB
17	A-017	1920/WRMD/04785	JAWALKAR NIKITA RAMDAS
18	A-018	1920/WRMD/04891	JUNNARKAR SAKSHI RAJESH
19	A-019	1920/WRMD/04751	KADAM APEKSHA SANDESH
20	A-020	1920/WRMD/04761	KAMBLE SHREYA ANIL
21	A-021	1920/WRMD/04914	KASBE MANSI NILESH
22	A-022	1920/WRMD/04842	KENDRE PRAJAKTA SATISH
23	A-023	1920/WRMD/05022	KHARDIKAR SWARALI SUHAS
24	A-024	1718/WRMD/03157	KSHIRSAGAR VAISHNAVI VIRENDRA
25	A-025	1920/WRMD/04773	LOKHANDE SHIVANI RANJEET
26	A-026	1819/WRMD/03858	MESHARAM PRANALI ANMOL
27	A-027	1819/WRMD/03918	NANDRE SAKSHI SANJAY
28	A-028	1920/WRMD/05031	PATHAK VRUSHALI DILIP
29	A-029	1920/WRMD/04698	PATIL ASHLESHA AJAY
30	A-030	1920/WRMD/04847	PATIL AYODHYA BALIRAM
31	A-031	1718/WRMD/03027	PATIL RAJSHRI UTTAM





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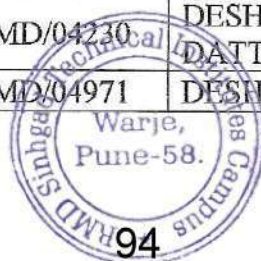
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Sr. No.	Roll No.	UID NO.	Name of Student
32	A-032	1920/WRMD/04940	PAWAR SAMIKSHA RAMESH
33	A-033	1920/WRMD/04898	SAHARE GIGYASHA R
34	A-034	1920/WRMD/04849	SALVE MANASI RAMDAS
35	A-035	1920/WRMD/04909	SANAP RUTUJA SUNIL
36	A-036	1920/WRMD/04985	SHETTY SIDDHI JAYAKAR
37	A-037	1920/WRMD/04754	SONAKUL SHIVANI SURESH
38	A-038	1920/WRMD/04892	SONAWANE POOJA RAMESH
39	A-039	1718/WRMD/02709	SURVE POOJA MANOHAR
40	A-040	1920/WRMD/04961	TAPASE PRIYANKA RAMCHANDRA
41	A-041	1920/WRMD/04857	RASIKA RAVINDRA DESHMUKH
42	A-042	1920/WRMD/04908	UMBARDAND RACHANA ABHAY
43	A-043	1718/WRMD/02821	AUSARKAR NACHIKET RAJENDRA
44	A-044	1819/WRMD/04022	BAJARE PANKAJ SOMNATH
45	A-045	1314/WRMD/02513	BANKAR SHUBHAM MILIND
46	A-046	1516/WRMD/02384A	BARKALE RUSHIKESH PUNDALIK
47	A-047	1920/WRMD/04779	BHALERAO VISHWANATH AIJINATH
48	A-048	1617/WRMD/01536	BHOSALE SWAPNIL SURYAKANT
49	A-049	17188WRMD/02959	BHURE HARSHD SANJAY
50	A-050	1920/WRMD/04756	BHUTALE RAJRATNA PRUTHVIRAJ
51	A-051	1920/WRMD/04964	BITAKE BALRAJ VINAYAK
52	A-052	1819/WRMD/03840	CHAUDHARI GORAKH BALU
53	A-053	1819/WRMD/04259	CHAUDHARI HARSHVARDHAN PRADIP
54	A-054	1920/WRMD/04757	CHAVAN ABHIJIT MADHUKAR
55	A-055	1920/WRMD/04753	CHAVAN GOPAL PAPPU
56	A-056	1920/WRMD/04843	CHAVAN HARSHAD HANMANT
57	A-057	1920/WRMD/04864	CHITALE SANTOSH RAJARAM
58	A-058	1920/WRMD/04745	DAGADE SHIVAM ANIL
59	A-059	1920/WRMD/04739	DAHLE SAURABH ARUN
60	A-060	1920/WRMD/04743	DAHLE YASH UDAY
61	A-061	1920/WRMD/04763	DEOKAR VIJAY BALU
62	A-062	1920/WRMD/04764	DESAI VARAD PRAVIN
63	A-063	1718/WRMD/03214	DESAR YOGESH MANOJ
64	A-064	1819/WRMD/04230	DESHMUKH RUSHIKESH DATTATRAYA
65	A-065	1920/WRMD/04971	DESHMUKH SHANTANU ANIL





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Sr. No.	Roll No.	UID NO.	Name of Student
66	A-066	1920/WRMD/04846	DEVRAJ VIJAY PIMPUTKAR
67	A-067	1718/WRMD/03413	DHAWADE SOHAM SHRIKANT
68	A-068	1617/WRMD/01585	DHAWARE ROHAN CHANDRAKANT
69	A-069	1718/WRMD/03000	DINDE OMKAR MARUTI
70	A-070	1920/WRMD/04817	DUDHADE KIRAN BABASAHEB
71	A-071	1920/WRMD/04977	DURGE ROHIT SANJAY
72	A-072	1617/WRMD/01601	FULARI OMKAR BASAVARAJ
73	A-073	1819/WRMD/04352	FULARI SHIVA VISHWANATH
74	A-074	1718/WRMD/02850	GADADE TUSHAR ANKUSH
75	A-075	1920/WRMD/04707	GADEKAR SANKET BABAN
76	A-076	1718/WRMD/02914	GAIKWAD MANAV HANUMANT
77	A-077	1617/WRMD/01605	GAIKWAD RAHUL DEEPAK
78	A-078	1920/WRMD/04948	GAIKWAD TEJAS DILIP
79	A-079	1920/WRMD/05032	GAURAV GAJANAN GURAV
80	A-080	1718/WRMD/03033	GAVIT MAYUR PRABHAKAR
81	A-081	1920/WRMD/04871	GHADGE SHREYASH SAMBHAJI
82	A-082	1920/WRMD/04875	GITESH MADHUKAR DHAKE
83	A-083	1920/WRMD/004701	GOSAVI ATHARVA SHIVAJI
84	A-084	1920/WRMD/04900	GUNJAL SAURABH NANASAHEB
85	A-085	1920/WRMD/04262	GUNJAL YOGESH MAHADEV
86	A-086	1920/WRMD/04807	HADAWALE TEJAS SANJAY
87	A-087	1920/WRMD/04731	HAGAWANE MOHIT NIWAS
88	A-088	1920/WRMD/04870	HAGAWANE SANKET SAMBHAJI
89	A-089	1920/WRMD/04714	HATKAR SHUBHAM RAMA
90	A-090	1920/WRMD/05044	INDERJEET SINGH
91	A-091	1617/WRMD/01647	JADHAO NIKETAN VASUDEO
92	A-092	1920/WRMD/04778	JADHAV SANKET KISHOR
93	A-093	1920/WRMD/05080	SHETE KOMAL MUKESH

Prof. Sneha S. Bhende

STP Department Coordinator

Dr. Pratibha M. Alandkar

Head of the Department





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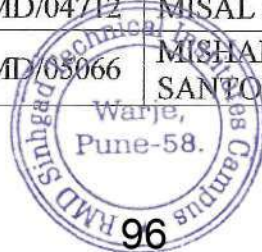
Students Enrollment List

Class- TE B

STP IV

Semester-IV

Sr. No.	Roll No.	UID NO.	Name of Student
1	B-101	1920/WRMD/04910	JADHAV VARAD DHANANJAY
2	B-103	1819/WRMD/04028	KADAM ADITYA BALASAHEB
3	B-104	1819/WRMD/03805	KADAM BALKRISHNA SANJAY
4	B-105	1617/WRMD/01678	KAKADE SAURABH SATISH
5	B-106	1920/WRMD/04906	KALE ANUP SUDHIR
6	B-107	1920/WRMD/05038	KALE ROHAN SHIVDAS
7	B-108	1920/WRMD/04912	KALSE PRASHANT SAINATH
8	B-109	1920/WRMD/04998	KAPSE ABHIJEET RAJENDRA
9	B-110	1920/WRMD/04720	KAPSE NIKHIL SANTOSH
10	B-111	1920/WRMD/04967	KARALE YASH ANIL
11	B-112	1920/WRMD/04786	KARAN THAVAL
12	B-113	1920/WRMD/04902	KASAR PRANAV PAVAN
13	B-114	1920/WRMD/04744	KATKAR SURAJ SATYAWAN
14	B-115	1920/WRMD/05017	KATTE ANUJ PRADEEP
15	B-116	1819/WRMD/03855	KATTIMANI SUNIL SHIVAPUTRA
16	B-117	1920/WRMD/04995	KENDRE CHANDRAKANT RAMKISAN
17	B-118	1920/WRMD/04989	KHOPADE OMKAR SUDHAKAR
18	B-119	1819/WRMD/03871	KIRDAKAR PRATAP BALASAHEB
19	B-120	1617/WRMD/01709	KOKANE BHUSHAN VILAS
20	B-121	1718/WRMD/02860	KUWAR VRUSHABH BAPU
21	B-122	1920/WRMD/04736	LADANE GANESH BHAGWANRAO
22	B-124	1819/WRMD/03877	MAHALE ABHINANDAN ANIL
23	B-126	1920/WRMD/04903	MASAL DADASO NAMDEV
24	B-127	1920/WRMD/04879	MAYUR Sampat Bhagwat
25	B-128	1920/WRMD/04712	MISAL ABHISHEK BALASAHEB
26	B-129	1920/WRMD/05066	MISHARA ANTESHKUMAR SANTOSHKUMAR





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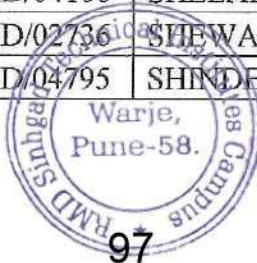
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Sr. No.	Roll No.	UID NO.	Name of Student
27	B-130	1819/WRMD/03818	MOHAMMED ADIL MOHAMMED ILYAS
28	B-131	1920/WRMD/04867	MOHIT MENGADE V.
29	B-133	1617/WRMD/01784	NADAF SALIM SHABUDDIN
30	B-135	1920/WRMD/004880	NARAYANKAR MUKESH VIJAYKUMAR
31	B-136	1920/WRMD/04796	NIGHOT CHAITANYA MAHESH
32	B-138	1920/WRMD/04713	OMKAR RATHOD B.
33	B-140	1920/WRMD/04984	PANCHAL RUSHIKESH SANJAY
34	B-141	1617/WRMD/01810	PANGARE AMRUT SHRIPATI
35	B-142	1819/WRMD/03892	PATIL AMIT SHAHAJI
36	B-143	1617/WRMD/02191	PATIL NIKHIL RAJENDRA
37	B-144	1920/WRMD/04958	PATIL OMKAR PRADIP
38	B-145	1718/WRMD/02945	PATIL PRATHAMESH ANAND
39	B-146	1718/WRMD/02917	PATIL SANDESH GAJAJAN
40	B-147	1920/WRMD/04954	PATIL SOMNATH DNYANESHWAR
41	B-148	1819/WRMD/03979	PAWAR AKASH BABAN
42	B-149	1920/WRMD/04803	PAWAR HRUSHIKESH SHARAD
43	B-150	1920/WRMD/04800	PAWAR MAYUR SANJAY
44	B-151	1920/WRMD/04777	PHADKE VAIBHAV SAMPAT
45	B-152	1920/WRMD/04886	PHAPAL AMAR DHONDIRAM
46	B-153	1920/WRMD/04749	PINGALE SHANTANU DILIP
47	B-154	1920/WRMD/04907	POL ASHUTOSH DHONDIBA
48	B-155	1819/WRMD/03822	PRAJAPATI AMAN RAJMANI
49	B-157	1920/WRMD/04845	RAJPUT RUTURAJ SUDARSHAN
50	B-159	1920/WRMD/04705	ROHIT MADHUKAR MHASKE
51	B-160	1920/WRMD/05034	RUSHIKESH CHANDRAKANT PAWAR
52	B-161	1920/WRMD/04931	SAGAR MANOJ PRATAP
53	B-162	1718/WRMD/03155	SALUNKE DHIRAJ DINKAR
54	B-163	1920/WRMD/05011	SANDE SURAJ NANDKUMAR
55	B-164	1819/WRMD/04024	SATPUTE ATUL BHARAT
56	B-165	1920/WRMD/04926	SAVALE ATHARVA UMESH
57	B-166	1617/WRMD/01884	SHAH SURAJ DEVENDRA
58	B-167	1920/WRMD/04896	SHAIKH ASIF RAMJAN
59	B-168	1617/WRMD/04106	SHELAKHE NISHANT BHAUSAHEB
60	B-171	1718/WRMD/02736	SHIWALE SHUBHAM EKNATH
61	B-172	1920/WRMD/04795	SHINDE AKASH VIJAY





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Sr. No.	Roll No.	UID NO.	Name of Student
62	B-173	1920/WRMD/04901	SHINDE SAURABH MAHADU
63	B-174	1718/WRMD/02677	SHITOLE SHIVAM SANTOSH
64	B-175	1920/WRMD/04697	SHRINTVAS BHASKARRAO PATIL
65	B-176	1920/WRMD/04955	SHRIRANG NANDKISHOR PATIL
66	B-177	1920/WRMD/04815	SUJEET SANTRAM GAIKWAD
67	B-178	1718/WRMD/02834	TAYADE ADITYA S.
68	B-179	1920/WRMD/04734	TEJAS GANESH DHULAM
69	B-180	1920/WRMD/04765	THETE ABHISHEK AVINASH
70	B-181	1920/WRMD/04877	THOMBARE SHREYASH LALIT
71	B-183	1920/WRMD/04860	THORAT UTKARSH AMBADAS
72	B-184	1920/WRMD/04972	TOTEWAR SANKET PRASHANT
73	B-185	1314/WRMD/05862	GARJE AMOL SHANKAR
74	B-186	1920/WRMD/04750	VINAYAK VILAS KAMBLE
75	B-187	1920/WRMD/04696	WADJE RUSHIKESH NARAYANRAO
76	B-188	1718/WRMD/02747	WARADE PRATIK SHYAM
77	B-189	1718/WRMD/03101	YADAV ROHAN RAJENDRA
78	B-190	1920/WRMD/04868	YANPURE NISARG NINAD
79	B-191	1516/WRMD/02519	YELPALE MOHIT MOHAN

Prof. Sneha S. Bhende

STP Department Coordinator

Dr. Pratibha M. Alandkar

Head of the Department



Department of Civil Engineering
Academic Year 2020-21 TE Semester –II


STP-IV Schedule

STP-IV will be conducted for Third Year TE-Civil Students on Microsoft Teams in online mode as per the following schedule.

Details are as follows:

Module No.	Name of Module	Date of conduction	Time
1	Research Why & How	25/02/2021 04/03/2021	2.15 PM -4.15 PM
2	Literature Review	12/03/2021 25/03/2021	2.15 PM -4.15 PM
3	Technical Writing	08/04/2021 16/04/2021	2.15 PM -4.15 PM


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**Department of Civil Engineering
Report on STP IV Sessions**

Sr. No	Event Details	
1)	Name of Event	Student Training Program
2)	Institute name	RMD Sinhgad Technical Institute Campus, Warje, Pune
3)	Venue of Event	TE Class Rooms TEA & TEB Microsoft Teams Classrooms
4)	Participants	TE Civil Engineering Students
5)	Purpose	Introduction of Research Methodology.
6)	Date	25/02/2021 to 16/04/2021
7)	Faculty Coordinator	Prof Sneha Bhende Prof. Rahul Shinde





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Department of Civil Engineering
Academic Year 2020-21 TE Semester –II

STP-IV Schedule Summary

STP-IV has been conducted for Third Year TE-Civil Students on Microsoft Teams in online mode as per the following schedule.

Schedule for TE A Class

Module No.	Name of Module	Date of conduction	Time	Present Student Out of _	Name of Faculty
				93	
1	Research Why & How	25/02/2021 04/03/2021	2.15 PM - 4.15 PM	73 69	Prof. Rahul Shinde
2	Literature Review	12/03/2021 25/03/2021	2.15 PM - 4.15 PM	75 71	
3	Technical Writing	08/04/2021 16/04/2021	2.15 PM - 4.15 PM	76 74	

Schedule for TE B Class

Module No.	Name of Module	Date of conduction	Time	Present Student Out of _	Name of Faculty
				79	
1	Research Why & How	25/02/2021 04/03/2021	2.15 PM - 4.15 PM	61 62	Prof. Sneha Bhende
2	Literature Review	12/03/2021 25/03/2021	2.15 PM - 4.15 PM	64 65	
3	Technical Writing	08/04/2021 16/04/2021	2.15 PM - 4.15 PM	68 62	



Overview on

Student Training Program IV

Student Training Program (STP) is incorporated into the curriculum to help prepare and evaluate the students in technical and non technical skills. As a part of STP, subject wise, all lectures are conducted by faculty members. This is a LAN based resource to help students learn and revisit concepts discussed in the class. The training provided is based on the need of the students to enhance the employability opportunity and higher education in India as well as abroad. STP program is spread over 7 semesters and total duration of program is 98 plus hours. STP program is designed to provide training and practice on soft skills, technical fundamentals, value added components, quantitative aptitude and logical reasoning, group discussion and interview preparation, research methodology. Sinhgad's student training program combines technology with education and builds students' technical and non-technical skills!

The program is designed to be fun, interesting and engaging for all students. Each session includes group discussions, individual exercises, teaching and internet support. The student training program is all about involving students and their own experiences of learning. It is often a real revelation to students to hear how other students are coping and the strategies that they are using to help themselves succeed. Students come away with practical strategies that they can use immediately.

Worldwide, advancement in technology has revolutionized the scope of engineering education and redefined expectations from engineering graduates. At STES, a need was identified to start an innovative "Student Training Program" that would help the students to build a personality equipped with exquisite technical and non-technical skills. The aim of this program is "to enhance the quality of the students by empowering them with skills those are globally at par"

The objectives of this program are to:

- Enhance the employability opportunity
- Prepare students for entrepreneurship
- Prepare students for higher education in India as well as Abroad

Every session will constitute of:

- Theory
- Activity
 - Pre-defined students will perform the activity
 - Every week, different set of students will get a chance to perform the activity





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A SUMMARY ON

STUDENT TRAINING PROGRAM-IV

Sessions in STP-IV will be delivered by trained in-house faculty and by expert trainers. STP IV Research methodology consists of a total of three sessions. Session I consists of “Research why and how?” Session II depends on “Literature Review”. Session three consists of “Report Writing”.

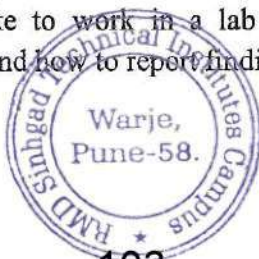
In Session I the detailed introduction about Research and how to start with any research work has been explained to students. In session II the most important part of any research Literature Review, the most important and basic aspect to proceed with particular research work, is the preliminary task to be done. In Session III Report Writing, once the research is done proper arrangement of data and drafting of report plays a vital role.

Research methodology is the specific procedures or techniques used to identify, select, process, and analyze information about a topic. In a research paper, the methodology section allows the reader to critically evaluate a study’s overall validity and reliability. The methodology section answers two main questions: How was the data collected or generated? How was it analyzed?

Research allows you to pursue your interests, to learn something new, to hone your problem-solving skills and to challenge yourself in new ways. Working on a faculty-initiated research project gives you the opportunity to work closely with a mentor—a faculty member or other experienced researcher.

Why should students consider getting involved in research and creative scholarship

- Gain hands-on experience completing a research or creative project.
- Work closely with a faculty mentor and have the opportunity to connect with other faculty and other student researchers who work in your area of interest.
- Earn academic credit, scholarships, stipends and/or other awards for having conducted research.
- Hone leadership and teamwork skills as students collaborate with others.
- Gain academic credentials that will help create a well-rounded resume, publishing your work and working with a research team.
- Learn valuable life skills for life and class such as professionalism, time management, learning how to use online research tools.
- Learn valuable skills for life and class (professionalism, time management, multi-tasking, online research tools).
- Learn to effectively communicate your ideas and how to analyze and critique the work of others.
- Assisting in research gives you hands-on experience in your field.
- You gain a deeper understanding of the scientific process... develop research questions and form and test your hypotheses.
- Students learn what it’s like to work in a lab and learn about the planning of experiments, writing grants and how to report findings.





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- Students can get paid. Sometimes as an employee and sometimes as a scholarship
- Students can publish work. If you help a faculty member they will mention work, or you
- An excellent opportunity to develop relationships with faculty members who work in area of interest and make connections with other students working on research. students will build a strong working relationship with a faculty mentor and be able to ask for a letter of recommendation.
- An opportunity to hone your leadership and teamwork skills as students collaborates with others.
- Opportunity to discover new knowledge and expand about what you already know.
- Create a well-rounded resume--you will show "hands-on" experience. You know how to produce results.



STP IV Module 1 Research Why & How

Date –25/02/2021 and 04/03/2021

Venue- Microsoft Teams Classroom

Aim: To make the students aware about why and how research is an important part of the technical field.

Objective:

- To encourage the students for numerous research domains.
- To enhance the students' innovative skills and intellectual development.
- To specifically focus on the research oriented projects based learnings.
- To gain a full and accurate understanding of research ideas.

Significance of STP IV Module 1

STP IV Module 1 Research why & How demonstrates strategies aimed to improve active research and innovative skills in students, which proposed to increase students' academic achievement. Module 1 Research Why & How sessions are very helpful to the students to execute the research work in the respective field of interest so that the students will be able to take part in numerous research conferences and journals.

The most Effective and powerful way to connect technical research studies is to invent innovative ideas and implement them in real life scenarios.

About Research Why & How

What is Research Methodology?

Research methodology is a way of explaining how a researcher intends to carry out their research. It's a logical, systematic plan to resolve a research problem. A methodology details a researcher's approach to the research to ensure reliable, valid results that address their aims and objectives. It encompasses what data they're going to collect and where from, as well as how it's being collected and analyzed.

Why is the Research Methodology Important?

A research methodology gives research legitimacy and provides scientifically sound findings. It also provides a detailed plan that helps to keep researchers on track, making the process smooth, effective and manageable. A researcher's methodology allows the reader to understand the approach and methods used to reach conclusions.

Types of Research Methodology





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When designing a research methodology, a researcher has several decisions to make. One of the most important is which data methodology to use, qualitative, quantitative or a combination of the two. No matter the type of research, the data gathered will be as numbers or descriptions, and researchers can choose to focus on collecting words, numbers or both. Here are the different methodologies and their applications:

Qualitative

Qualitative research involves collecting and analyzing written or spoken words and textual data. It may also focus on body language or visual elements and help to create a detailed description of a researcher's observations. Researchers usually gather qualitative data through interviews, observation and focus groups using a few carefully chosen participants.

Mixed Method

This contemporary research methodology combines quantitative and qualitative approaches to provide additional perspectives, create a richer picture and present multiple findings. The quantitative methodology provides definitive facts and figures, while the qualitative provides a human aspect. This methodology can produce interesting results as it presents exact data while also being exploratory.

Types of Sampling design in research methodology

When creating a sample design, a researcher decides from who or what they'll collect data. They also choose the techniques and procedures they'll use to select items or individuals for the sample. There are several types of sample design that fall into two main categories:

Probability sampling

This sampling method uses a random sample from the pool of people or items you're interested in, called the population, and is random or chance sampling. Every person or item in the population has an equal chance of being selected. Using this method is the best way to get a truly representative sample, and researchers can generalize the study's results to the entire population.

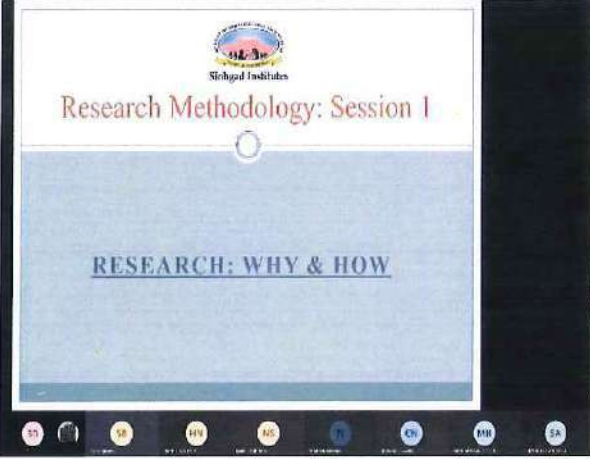
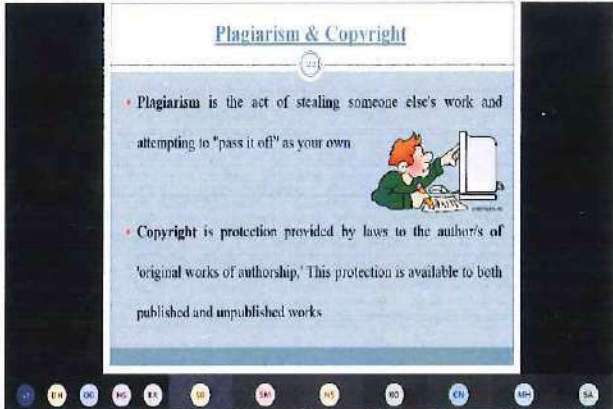
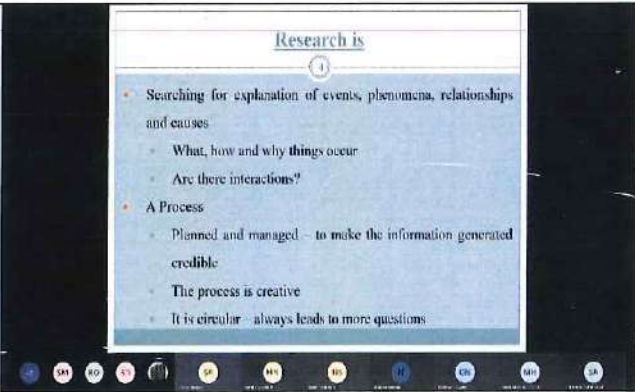
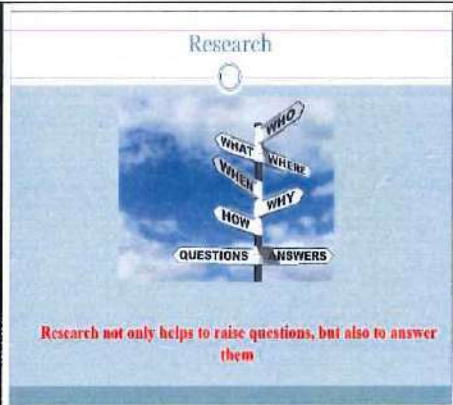
Outcome:

- **Students will be able to symbolize the research problems in academics.**
- **Research enables students to think in innovative ways for the technical application of syllabus problems.**
- **Researchers will be able to think critically to file patents in inventions.**
- **Students will be able to improve the diverse multidisciplinary innovations**



PHOTOGRAPHS:


“STP-IV Module 1 : “Research Why & How”

 <p>Research Methodology: Session 1</p> <p align="center">RESEARCH: WHY & HOW</p>	 <p align="center"><u>Plagiarism & Copyright</u></p> <ul style="list-style-type: none"> Plagiarism is the act of stealing someone else's work and attempting to "pass it off" as your own Copyright is protection provided by laws to the author's of 'original works of authorship.' This protection is available to both published and unpublished works
<p>Research Methodology Module 1 Session</p>	<p>Research Methodology Module 1 Session</p>
 <p align="center"><u>Research is</u></p> <ul style="list-style-type: none"> Searching for explanation of events, phenomena, relationships and causes <ul style="list-style-type: none"> What, how and why things occur Are there interactions? A Process <ul style="list-style-type: none"> Planned and managed – to make the information generated credible The process is creative It is circular – always leads to more questions 	 <p align="center">Research</p> <p align="center">Research not only helps to raise questions, but also to answer them</p>
<p>Research Methodology Module 1 Session</p>	<p>Research Methodology Module 1 Session</p>

Conclusion:

“To enhance the quality of engineering students by empowering them with skills that are globally important, STP IV will be beneficial to students”.


Prof. Rahul Shinde
 STP-IV Coordinator


Prof. Sneha S. Bhende
 Department STP Coordinator


Dr. Pratibha M. Alandkar
 Head of Department

