



**SKN SINHGAD COLLEGE OF
ENGINEERING
PANDHARPUR**

ACADEMIC REPORT

2021-22

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MESSAGES

MESSAGE OF PRESIDENT



PROF. M. N. NAVALE

तमसो मा ज्योतिर्गमय, Lead us to the light.

Education is light. Education is the way to a larger purpose. As an educationist, almost two decades back, I looked at all that could be corrected in the educational system. Sinhgad Technical Education Society was our humble effort to bring education to more people. Education that they need. Education that they desire for. Education that is now within their reach.

We always put purpose before short term achievements, vision before short-cuts. In two decades we have come a long way. What started as a humble dream is now a revolution. To see over seventy thousand students pursuing their dream in our campuses every year, cannot be explained any better. Everywhere you look, you see a young mind creating a new future for the world. In his fertile imagination, he has no obstacles. He knows there is a guide nearby who will hold his hand if he were to miss a step. He is free to foresee a world better than what you and I have made.

It is this environment of excellence and freedom that we have built into our institutions. Every time I see a child struggling with the complexities of a syllabus, I just say, look deep, it is simple.

In the twelve campuses and our 117 institutes, we have just kept one thing common, a burning ambition. We have come a long way. And what we cultivate in our students, we keep alive for ourselves. The ambition to build India into an educational leader in the world. We walk on, with faith, with commitment and with grace.

Come join us in our march towards light.

MESSAGE OF VICE PRESIDENT (ADMIN)



Ms. Rachana M. Navale

Some tools shape our destiny.

Passion, expertise, excellence and humility are the hallmarks at Sinhgad Institutes. When you walk through our campuses, at times you would be awed by the sheer energy around you. We take every possible step to continuously outdo ourselves. With some of the best facilities that you have ever experienced in any institution, we just keep moving forward.

Learning deserves a befitting environment. Self contained campuses, at the seat of nature, technology and wisdom having a silent interaction, cultures mingling without semantics, life essaying the king's course. All that you experience when you are here, with us.

We reserve some special favors for the women in our campus. Safety, dignity and opportunity. It deserves a special mention as many educational institutes today do not value this simple basic. Our society grows as far as our leading ladies.

Education is the light, education is the way. It is the tool that alters the path of our lives. At Sinhgad, we hand you this tool with all the accessories. Learning here is not just fun, it is a life-changing experience.

Remember, few choose to walk the road to greatness.

VISION & MISSION

... The Man with Imagination Is Never Alone

VISION



We are committed to transform SKN SCOE, as a leading technological institute in India which offers a dynamic learning environment with value based education through self-learning and innovative thinking in students.

MISSION



SKN Sinhgad College of Engineering offers a unique culture to enhance Self Esteem, Team Spirit, and Life Skills of students to match the need of fast changing world. The institute focuses on self learning abilities; Project based Learning's through well-defined curricular and co-curricular activities.



GOALS

GOALS

SHORT TERM GOALS	LONG TERM GOALS
✓ Post graduate program in Engineering with all disciplines	✓ Center of Excellence in key areas of Engineering Education
✓ Need based in-house value Addition programs in diversified areas	✓ NBA accreditation of the Institute within stipulated time frame
✓ Strong Industry interactions through campus connect programs.	✓ PBL center of excellence
✓ Decentralization of student, academic, research activities	✓ All faculty members with PhD degree
✓ European fellowship for 25 students.	✓ PhD from European university by at least two faculty members from each department
✓ Placement of 100+ students through CPC, pune	✓ Starting of in house incubation center for development of Entrepreneurship
✓ Starting of in house MPSC/UPSC study circle	✓ An ideal self-suffice campus in all respect



ACTIVITY

...It is not what we have, but how we make the best of what we have.

ACTIVITY

Academic Activities	Co-Curricular Activities	Faculty Development And Industry Interface
<ul style="list-style-type: none"> ➤ Teaching Plan ➤ Self-Learning Sessions ➤ Attendance ➤ Teacher Guardian Scheme ➤ Continuous Assessment ➤ Need based in house Training Programs ➤ Continuous Up-gradation of Laboratories & library ➤ Open Feedback ➤ Unit Tests, Prelims ➤ Well defined Internal Assessment Scheme 	<ul style="list-style-type: none"> ➤ LCD Presentation ➤ Group Discussion ➤ Departmental Activities ➤ Invited talks by Industry Experts/Corporates/Academicians ➤ Technical quizzes/ Technical festivals ➤ Industry Projects/ Project exhibitions ➤ College/Wall Magazine ➤ Social/Cultural Programs/Sport 	<ul style="list-style-type: none"> ➤ In-house Training (Personal Interactions, Meetings/quality improvement programs) ➤ Industry exposure ➤ Participation in workshops conducted by Industries / other institutes of eminence ➤ Motivation for higher Education ➤ Campus Connect/ extension programs ➤ Vocational Training for students/ Industrial visits ➤ Training & Placement Activities ➤ Seminars & Conferences



INTAKE

U. G. Courses		Intake
1	Mechanical Engineering	120
2	Electronics & Telecommunication	60
3	Computer Science & Engineering	60
4	Electrical Engineering	60
5	Civil Engineering	60
P. G. Courses		Intake
1	Design Engineering	18
2	Electronics Engineering	18
3	Structural Engineering	18
4	Computer Science & Engineering	18



ACTUAL ADMITTED STUDENTS

Sr.No.	Name of Department	Class	Number of Students Admitted
1	Mechanical Engineering	SE	82
		TE	54
		BE	110
		ME-I	6
		ME-II	13
2	Electrical Engineering	SE	75
		TE	38
		BE	54
3	Civil Engineering	SE	75
		TE	70
		BE	75
		ME-I	19
		ME-II	19
4	E&TC	SE	74
		TE	31
		BE	44
		ME-I	4
		ME-II	7

5	CSE	SE	77
		TE	76
		BE	72
		ME-I	3
		ME-II	4
6	FE	FE	323
Total			1405



University Results

Sr.no	Class	All Clear result in %				
		Mech	CSE	E&TC	Civil	Elect
1	SE	98.76	100	100	100	98.66
2	TE	98.11	97.33	100	100	91.89
3	BE	96.36	100	100	100	100
4	ME-I	60	100	100	84.21	-
5	FE	100				



The Faculty Position

Sr.No.	Department	Professors	Associate Professor	Assistant Professor	No. of full time teacher with Ph.D+SET/NET	Total
1	Central (All Dept.)	5	6	85	14	110



PhD Registered Faculty Members

Sr.No	Department	Name of the Faculty	University/Institute
1	Mechanical	S.R.Koli	KL University Vijaywada
2		N.L.Phule	Shivaji
3	Civil	Y.P.Pawar	Solapur
4		C.M.Deshmukh	Shivaji
5		G.D.Lakade	KL University Vijaywada
6		A.A.Kamble	Vel Tech chennai
7	ENTC	A.D.Harale	Pune
8		A.C.Pise	Solapur
9		G.B. Birajadar	VTU
10		S.S. Gangonda	VTU
11	CSE	S.V. Pingale	BATU
12		N.M. Sawant	Mumbai
13		U.G.Phule	University of Technology Jaipur
14	General Science	A.I.Nikam	Mumbai
15		B.S.Savase	PAHSUS
16		D.Ganmote	Pune

Publications

Sr. No.	Name of Faculty	Department	Title of Paper	Name of Journal	Volume, Page No, Year
1	Dr.S.S.Kadam	Civil	To Study Effect of Bond Strength with Provided Effective Development Length in Concrete Structure: Review	INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY	2278-0181.202,Dec. 2021
2	Prof. Y.P.Pawar	Civil	Performance Analysis of Steel Concrete Composite Section	International Journal for Science and Advance Research In Technology	2395-1052,2021, Apr-21
3	Prof. Y.P.Pawar	Civil	Review Paper on To Investigate Behavior of Piles In Soil Liquefaction Condition	International Journal for Science and Advance Research In Technology	395-1052,2022,Jan .2022
4	Prof. Y.P.Pawar	Civil	Effect of Pile Stiffness with Varying Diameter of Piles on Structure in Various Zones of Seismicity	International Journal of Engineering Research & Technology	2395-0056 (Online),2021, Jul-21
5	Dr.S.S.Kadam	Civil	Application of Damping Devices for Tall Steel Structure	Journal of Emerging Technologies and Innovative Research	2349-5162,2021,May-21
6	Prof. S. V. Pingale	CSE	Automated network intrusion detection using multimodal networks	International Journal of Computational Science and Engineering	2021-22
7	Prof. P.B Vyavahare	Electrical	Harmonics Reduction and Power Factor Improvement of Switch Mode Power Supply by Using Zeta Converter	International	2021-22
8	Prof. Jadhav K.P.	Electrical	OPEN-CIRCUIT FAULT DIAGNOSIS IN VSI BY SIMPLE	International Journal of Innovations in Engineering	2021-22

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			DIRECT CURRENT METHOD	Research and Technology [IJIERT]	
9	Prof. Jadhav K.P.	Electrical	STUDY OF FACT DEVICE UPFC	International Journal of Innovations in Engineering Research and Technology [IJIERT]	2021-22
10	Prof. N. V. Khandekar	Electrical	Outage Management in Multi-Microgrid Distribution System for Reliable Operation	IJARIIE	2021-22
11	Prof. N. V. Khandekar	Electrical	Impact of seasonal variation on corona discharge and over all power wheeling efficiency of overhead transmission line within western region of India.	IJARIIE	2021-22
12	Dr. Altaf O. Mulani	ENTC	Yarn Quality Detection For Textile Industries Using Image Processing	Journal of Algebraic Statistics	Volume 13, No. 3, 2022, p.3465-3472
13	Mr. Kazi Kutubuddin	ENTC	Ibutton Based Physical Access Authorization And Security System	Journal of Algebraic Statistics	Volume 13, No. 3, 2022, p.3822-3829
14	Dr. Altaf O. Mulani	ENTC	Scalable Face Image Retrieval Using AESC Technique	Journal of Algebraic Statistics	Volume 13, No. 3, 2022, p. 173-176
15	Dr. Kailash J. Karande	ENTC	Grading of Pomegranate Using Quality Analysis	International journal for research in Applied Science & Engineering Technology	Volume 10 Issue II Feb 2022, page no.: 875-881
16	Dr. Altaf O. Mulani	ENTC	Video Watermarking System	International Journal of Advanced Research in Engineering and Technology (IJARET)	Volume 10 Issue III Mar 2022, page no.:105-109
17	Dr. A. O. Mulani	ENTC	An Approach For Robust Digital Image	Journal of Science and Technology	VOLUME6, ISSUE 4, Apr.-

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			Watermarking Using DWT- PCA		2019,page no.42-48
18	Dr. A. O. Mulani	ENTC	Moving Object Detection And Tracking Using Matlab	Journal of Science and Technology	Volume 06,Special Issue 01, August 2021,pp63-66
19	Mr. A. D. Harale	ENTC	IoT Based Personal Medical Assistant System	International Journal of Innovative Research in Technology	Volume 8 Issue 5,October 2021,pp588-590
20	Dr. K. J. Karande	ENTC	An Exploratory Study of Cluster Based Routing Protocol in Vanet: A Review	International Journal of Advanced Research in Engineering and Technology	Volume 12, Issue 10, October 2021, pp. 17-30
21	Mrs. Sudha Surwase	ENTC	IOT Based Environmental Parameter Monitoring Using Machine Learning Approach-A Review	International Journal of Research Publication and Review	Vol 2, no 12, pp 1550-1553, December 2021
22	Mr. Kazi Kutubuddin	ENTC	Yarn Quality Detection For Textile Industries Using Image Processing	Journal of Algebraic Statistics	Volume 13, No. 3, 2022, p.3465-3472
24	Dr. Altaf O. Mulani	ENTC	Ibutton Based Physical Access Authorization And Security System	Journal of Algebraic Statistics	Volume 13, No. 3, 2022, p.3822-3829
25	Dr. Altaf O. Mulani	ENTC	Grading of Pomegranate Using Quality Analysis	International journal for research in Applied Science & Engineering Technology	Volume 10 Issue II Feb 2022, page no.: 875-881
26	Mrs. A. C. Pise	ENTC	An Exploratory Study of Cluster Based Routing Protocol In Vanet: A Review	International Journal of Advanced Research in Engineering and Technology	Volume 12, Issue 10, October 2021, pp. 17-30
27	Dr. Kailash Karande	ENTC	IOT Based Environmental Parameter Monitoring Using Machine Learning Approach-A Review	International Journal of Research Publication and Review	Vol 2, no 12, pp 1550-1553, December 2021

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28	Sampat G. Deshmukh	General Science & Engg.	RF Energy Harvesting Multi-Frequency Receptor Model for Micropower applications	AIP Conference Proceedings	In process
29	Sampat G. Deshmukh	General Science & Engg.	Post-annealing Influence on Structural, Surface and Optical Properties of Cu ₃ BiS ₃ Thin Films for Photovoltaic Solar Cell	Artificial Intelligence, Internet of things (IoT) and Smart Materials for Energy Applications	Published on 15.10.2022
30	Sampat G. Deshmukh	General Science & Engg.	Superhydrophobic Coatings of Silica NPs on Cover Glass of the Solar Cells for Self-cleaning Application	Artificial Intelligence, Internet of things (IoT) and Smart Materials for Energy Applications	Published on 15.10.2022

Workshops/Seminar Conducted by Department

Sr.No.	Department	Title of STTP/workshop	Date
1	CSE	"One day Webinar on AI,ML and DL"	18th Nov 2021
2	CSE	One Day Webinar on Deep Learning Approaches for Cyber Security	16th Oct 2021
3	ENTC	ICCIES 2021	25 June
4	ENTC	Image Processing with MATLAB	9 September
5	ENTC	Big Data and Analysis	30 September
6	ENTC	Bits of Computer Networking with Simulation	20 October
7	ENTC	Resume and Interview Preparation for Campus Drive	22 October
8	ENTC	PCB Design using EASYEDA	2 November
9	ENTC	Full Stack Development, technology and Implementation	14 January
10	ENTC	Data Science and Its Applications	15 January
11	ENTC	Problem Solving and Ideation Activity	26 February
12	ENTC	Smart Automation, Arduino Microcontroller, SCADA-PLC, PCB Design and Solar Technology	10 March
13	ENTC	Lean Startup & Minimum Viable Product /Business - Bootcamp (or) Mentoring Session	21 April
14	ENTC	Manual and Automation Software Testing	25 April

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15	ENTC	VLSI in Industries	26 April
16	ENTC	Database Management	6 April
17	ENTC	Python	18 April
18	ENTC	Artificial Intelligence & Machine Learning	20 August
19	Mech.	Fundamentals of Ferrous Metallurgy	13th March 2021
20	General Science & Engg.	Workshop on “Soft Skill Development ”	29/04/2022
21	General Science & Engg.	Seminar on “An Awareness on Japanese Language”	03/04/2022

Workshops Attended by Faculty

Sr.No.	Department	Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
1	Civil	BRIDGE ENGINEERING- Cracking, Distress, Prestressing, Retrofitting & Rehabilitation of Bridge	1	5 -9 Jul 2021
2	Civil	Tools and Techniques for Researcher	1	27-28 Jan. 2022
3	ENTC	Fundamentals of image processing	1	23 to 27 May 2022
4	ENTC	Outcome based pedagogy for teaching & learning education	1	14 to 18 Jun 2022
5	ENTC	Cyber Security	1	16 Jun 2022
6	ENTC	IOT application & medical quantum	1	19 Dec 2022
7	ENTC	Syllabus Setting & structure design	1	7 June 2022
8	Mech.	Fundamentals of Ferrous Metallurgy	8	13 th March 2021
9	General Science & Engg.	Workshop on “Tools and Techniques for Researcher”	1	27 th - 28 th January, 2022
10	General Science & Engg.	“National Seminar on Current Trends in Medical Chemistry”	1	23 rd - 25 th March, 2021
11	General Science & Engg.	“Virtual Labs: Hands On Online Workshop”	1	10 th

				December, 2021
12	General Science & Engg.	Workshop on “Tools and Techniques for Researcher”	1	27 th - 28 th January, 2022
13	General Science & Engg.	Workshop on “Tools and Techniques for Researcher”	1	27 th - 28 th January, 2022



Research and Development

Sr. No.	Year	Particulars	Funding Agency	Amount sanctioned (Rs.)	Amount Received (Rs.)
1	2021-22	Seed Money Proposal on Performance Evaluation of the microcontroller based IOT System	PAHSU Solapur	68,000/-	68,000/-
2	2021-22	Seed Money Proposal on Parametric study of system parameters of improvement in particle damper performance.	PAHSU Solapur	64,000/-	64,000/-
3	2021-22	International Conference on Material, Energy & Environment For Sustainable Development	PAHSU Solapur	2s000t-	2s000t-
4	2021-22	Seminar On DeepLearning Approaches for cyber security	PAHSU Solapur	4000/-	4000/-
5	2021-22	Breakthrough Research Outstanding Research	PAHSU Solapur	1.59.000/-	1.59.000 /-
6	2021-22	Employability Skills Development (ESD) Sponsored training students for modules on SQL, Core-JAVA, Advanced JAVA, Python, manual testing, Aptitude, and Soft skills	ZENSAR	1,00,000/	1,00,000/
7	2021-22	Research project on “Productionand utilizationof biodiesel from Neem seed oil and suggesting design modification in diesel engine for rural development in India.”	Rajeev Gandhi Sc. & Tech. Commission	3,33,000/-	2,10,000 /-
8	2021-22	Financial assistance for organizing workshop atthe college during the financial year2020-21 one day	PAHSU	4,000/-	4,000/-

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		workshop on Google cloud certification	Solapur		
9	2021-22	Investigation on optical and electrical properties of Nano crystalline Cu ₃ BiS ₃ thin films for environment friendly photovoltaic solar cell	PAHSU Solapur	50,000/-	10000/-
10	2021-22	Energy optimal prototype design for wireless energy harvesting	PAHSU Solapur	60,000/-	10000/-



Value Addition Program (VAP)

Sr.No.	Department	Value added courses	Date of introduction	Number of students enrolled
1	Civil	Auto Cad	14-02-2022 to 19-02-2022	22
2	CSE	HTML,CSS & JAVA SCRIPT	29 th Oct To 31 st Oct 2021	42
3	ENTC	Python	18-04-2022 to 22-04-2022	40
4	Mech.	BASICS OF PYTHON	18/4/2022 to 23/4/2022	60
5	Electrical	Getting Started with C++ Programming	26-06-2022 to 30-06-2022	19
6	Electrical	C Programming for Beginners on Window	26-01-2022 to 30-01-2022	7



Training and Placement Cell

1) Civil

Year	No. of Students in the final year	No. of students place through campus 1	No. of students going for higher studies 2	No. of self employed students 3	Total of 1+2+3
2021-22	75	26	6	5	37

2) CSE

Year	No. of Students in the final year	No. of students place through campus 1	No. of students going for higher studies 2	No. of self employed students 3	Total of 1+2+3
2021-22	72	54	--	--	54

3) Electrical

Year	No. of Students in the final year	No. of students place through campus 1	No. of students going for higher studies 2	No. of self employed students 3	Total of 1+2+3
2021-22	38	37	3	2	41

4) ENTC

Year	No. of Students in the final year	No. of students place through campus 1	No. of students going for higher studies 2	No. of self employed students 3	Total of 1+2+3
2021-22	46	41	1	1	43

5) Mechanical

Year	No. of Students in the final year	No. of students place through campus 1	No. of students going for higher studies 2	No. of self employed students 3	Total of 1+2+3
2021-22	110	94	0	0	94