



**SKN SINHGAD COLLEGE OF
ENGINEERING
PANDHARPUR**

ACADEMIC REPORT

2020-21

INDEX

Sr.No.	Content	Page No.
1	Messages.....	3
2	Vision, Mission.....	7
3	Goals.....	9
4	Activity.....	11
5	Intake.....	12
6	Admission Position 2020-21.....	12
7	University Result.....	13
8	The Faculty Position.....	13
9	PhD Status.....	14
10	Journal Publications	15
11	Workshop Conducted by Department.....	19
12	Workshop Attended by faculty.....	21
13	Research & Development.....	24
14	Value Addition Programs.....	25
15	Training and Placement Cell.....	25

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	60
		TE	109
		BE	139
		ME-I	13
		ME-II	14
2	Electrical Engineering	SE	42
		TE	53
		BE	70
3	Civil Engineering	SE	70
		TE	74
		BE	60
		ME-I	20
		ME-II	18
4	E&TC	SE	32
		TE	48
		BE	26
		ME-I	7
		ME-II	7

5	CSE	SE	76
		TE	71
		BE	68
		ME-I	4
		ME-II	1
6	FE	FE	230
Total			1312



University Results

Sr.no	Class	All Clear result in %				
		Mech	CSE	E&TC	Civil	Elect
1	SE	81.03	97.36	96.77	100	100
2	TE	93.57	98.61	91.30	100	97
3	BE	99.29	98.59	100	100	100
4	ME-I	100	100	100	95	-----
5	FE	98.64				



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.)	2	6	110	7	125



PhD Registered Faculty Members

Sr.No	Department	Name of the Faculty	University/Institute
1	Mechanical	A.S.Aradhey	Solapur
2		S.D.Katekar	SANDIP NASHIK
3		N.L.Phule	Pune
4		S.R.Koli	KL Vijaywada
5	Civil	Y.P.Pawar	Solapur
6		C.M.Deshmukh	Shivaji
7		G.D.Lakade	KL Vijaywada
8		A.A.Kamble	VEL TECH Channai
9	E&TC	A.B.Jagdale	Pune
10		A.D.Harale	Pune
11		A.C.Pise	Solapur
12		H.S.Deshpande	Solapur
13		S.V. Survase	VTU
14		G.B. Birajadar	VTU
15		S.S. Gangonda	VTU
16	CSE	A.A.Rajguru	Solapur
17		R.A. Takalikh	KLEF
18		S.V. Pingale	BATU
19		V.G. Chavan	SANDIP NASHIK
20		N.M. Sawant	Mumbai
21		U.G.Phule	University Technology Jaipur
22	General Science	A.I.Nikam	Solapur

Publications

Sr. No.	Name of Faculty	Department	Title of Paper	Name of Journal	Volume, Page No, Year
1	C.P.Pise	Civil	Using Time History analysis of Viewfinder girder	International Journal for Scientific Research and Advance Research in Technology	2395-1052,2021,Jan-21
2	Prof. S.S. Kadam	Civil	Experimental study on flexural behaviour of concrete filled steel tube beam	International Journal of Engineering Research & Technology	2278-0181,2021,Jan . 2021
3	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	2278-0181,2021,Dec. 2021
4	C.P.Pise	Civil	Effect of Different Soil Condition on Foundation Design of Tall Building	International Journal for Science and Advance Research In Technology	2395-1052,2021,Apr-21
5	C.P.Pise	Civil	A Review of Seismic Behaviour for High Rise Structure with Inclined Intersecting Members	International Journal for Scientific Research & Development	2321-0613,2021,Jan .2021
6	Prof. Y.P. Pawar	Civil	Seismic performance of multi storied building with diaphragm discontinuity	International Journal for Scientific Research & Development	2321-0613,2020, Nov.2021
7	Prof. S.S. Kadam	Civil	Analytical study of the rice hush ash and steel fibre as partial	International Journal for Scientific Research &	2321-0613,2020,Jan .2021

ACADEMIC REPORT 2020-21

			replacement of cement and its effect on strength of concrete	Development	
8	Prof. S.S. Kadam	Civil	Seismic Analysis and Comparative Study Of Vertically Irregular R.C. Building Frames	International Journal of Innovative Research in Science, Engineering and Technology	Online : 2319-8753 Print : 2347-6710, 2020, Sep. 2020
9	Prof. S.S. Kadam	Civil	Validation by Regression Technique for Compressive Strength and Flexure Strength of Concrete	International Journal of Innovative Research in Science, Engineering and Technology	2319-8753, 2020, Dec. 2020
10	Prof. S.S. Kadam	Civil	A Review on Effect of Web Inclination on Box Girder Bridges	International Research Journal of Engineering and Technology	2395-0056, 2021, Jan. 2021
11	Prof. Y.P. Pawar	Civil	Seismic Performance of Multi storied Building with Diaphragm Discontinuity	International Journal for Scientific Research and Development	2321-0613, 2021, Jan. 2021
12	S.S. Kadam	Civil	Effect of Shear Span on RCC Beam Subjected To Bending And Shear	International Journal for Science and Advance Research In Technology	2395-1052, 2020, Sep. 2020
13	Prof. S.S. Kadam	Civil	Effect of pile stiffness with varying diameter of piles on structure in various zones of seismic	International Journal of Engineering Research & Technology	2278-0181, 2020, Dec. 2020
14	G. D. Lakade	Civil	Experimental Study on High Performance Steel Fibre Reinforced Concrete using Meta kaolin	International Journal of Engineering Research & Technology	2278-0181, 2021, Feb-21
15	Prof. D. D. Kalel	Electrical	Torque Ripple Reduction in PMSG for Standalone Wind Energy System Using Three Level DTC with a Dither Signal	International	Volume 14, pages 1823-1834 (2022)

ACADEMIC REPORT 2020-21

16	Prof. Sonali D. Ghodake	Electrical	Use of Vertical Axis Wind Mill for Making National Highways Green	International Engineering Research Journal	Vol.12 No.2 (2021),2372-2381
17	Dr. Kailash J. Karande	ENTC	VGHN: Variations Aware Geometric Moments and Histogram Features Normalization For Robust Uncontrolled Face Recognition	International Journal of Information Technology	Volume 14, pages1823–1834 (2022)
18	Mr. Altaf O. Mulani	ENTC	Machine Learning Based Autonomous Fire Combat Turret	Turkish Journal of Computer and Mathematics Education	Vol.12 No.2 (2021),2372-2381
19	Mr. Ganesh Birajadar	ENTC	Epilepsy Identification Using EEG Signal Monitoring	Turkish Journal of Computer and Mathematics Education	Vol.12 No.2 (2021),2366-2371
20	Mr. Ganesh Birajadar	ENTC	Comprehensive Survey On EEG Analysis For Detecting Brain Disorders	International Journal of Future Generation Communication and Networking	Vol.13, No.3s(2020)
21	Mr. Amol B. Jagdale	ENTC	IoT Based Controlling Pond Parameters	International Journal for Scientific Research & Development (IJSRD)	Volume : 8, Issue : 8, Page(s): 383-387, 01/11/2020
22	Mr. Siddheshwar S. Gangonda	ENTC	VGHN: Variations Aware Geometric Moments And Histogram Features Normalization For Robust Uncontrolled Face Recognition	International Journal of Information Technology	Volume 14, pages1823–1834 (2022)
24	Dr. B. S. Gandhare	Mech.	Effect of tool profile, rotational speeds and welding speed on mechanical properties and weld quality of friction stir welded 6063-T4 Aluminum alloy	MaterialTech-2021	NA

ACADEMIC REPORT 2020-21

25	Dr. S. S. Kulkarni	Mech.	Analytical Investigation of Vibration Response of Cracked Laminated Composite Beam	RMDSTIC-2021	NA
26	Prof. Y. D. Shinde	Mech.	Analytical Investigation of Vibration Response of Cracked Laminated Composite Beam	RMDSTIC-2021	NA
27	Sampat G. Deshmukh	General Science & Engg.	Investigation of structural, optical and wettability properties of cadmium sulphide thin films synthesized by environment friendly SILAR technique	Electrical and Electronic Devices, Circuits and Materials: Technological Challenges and Solutions	ISBN: 9781119750369 DOI: 10.1002/9781119755104 Pages:285-298 Published on: 11 March 2021
28	Sampat G. Deshmukh	General Science & Engg.	Successive Ionic Layer Adsorption and Reaction Deposited ZnS-ZnO Thin Film Characterization	Electrical and Electronic Devices, Circuits and Materials: Design and Applications	ISBN: 9780367564261 DOI: 10.1201/9781003097723 Pages:315-328 Published on: 16 March 2021
29	B. S. Savase	General Science & Engg.	Code-mixing Creates Verbal Humour in Standup Comedy: Comedy Nights with Kapil Shrma	Contemporary Research In India	ISSN:2231-2137 Special Issue: May 2021 Pages:72-75
30	Mr.V.A.Dhotre	CSE	Big data Analytics using map reduce for education system	Linguistica antverpiensia	2020-21
31	Mr.S.V.Pingale	CSE	Smart phone based system for clinical assessment of a person's pattern of walking by using IoT	I.Journal of Science and Engineering	2020-21

Workshops/Seminar Conducted by Department

Sr.No.	Department	Title of STTP/workshop	Date
1	Civil	One week online FDP on QCAD & QGIS	22 th – 26 th Jun. 2020
2	CSE	One day Webinar on Cyber Forensics	26/03/2021
3	CSE	One day Webinar on Deploying Web Application into Cloud Environment	04/09/2021
4	Electrical	Outcome based pedagogy for Effective Teaching & Energy	14/07/2020
5	Electrical	The Role of IOT In Renewable Energy Sources Driving Electrical Power Grids	15/07/2020
6	Electrical	Essential Mathematics For Engineers and Researcher	16/07/2020
7	Electrical	Environmental Science, Technology and Management for Sustainable Development	20/07/2020
8	ENTC	Webinar on Deep learning using MATLAB	14/07/2020
9	ENTC	Webinar on ATPG or BIST	15/07/2020
10	ENTC	Webinar on VLSI Design	16/07/2020
11	ENTC	Webinar on Introduction to VHDL	17/07/2020
12	ENTC	Webinar on Industrial Automation	18/07/2020
13	ENTC	PSU Opportunities through GATE	29/08/2020
14	ENTC	Workshop on Python Programming	12/9/2020
15	ENTC	Workshop on Simulink and Stateflow	14/09/2020
16	ENTC	Design Validation through various models (Double Diamond Approach)	09/02/2021

ACADEMIC REPORT 2020-21

17	ENTC	Pitching Workshop & Linkage of Innovators with Innovation Ambassadors	09/02/2021
18	Mech.	Fundamentals of Ferrous Metallurgy	13th March 2021
19	General Science & Engg.	Workshop on “ Campus Placement Awareness and Preparation”	23/06/2021
20	General Science & Engg.	Seminar on “ Coursera Awareness”	05/06/2021

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	Steel Structure: A Limit State Approach.	1	17 th Jun 2020
2	Civil	Advances in Civil and Structural Engineering.	1	15 th – 19 th Jun 2020.
3	Civil	FDP on LaTeX.	1	1 st – 7 th Jun 2020
4	Civil	Advances in Civil and Structural Engineering	1	15 th – 19 th Jun 2020
5	Civil	FDP on Construction Technology.	1	7 th – 11 th Dec. 2020.
6	Civil	Modern Approach in Structural Engineering 2020	1	6 th – 10 th Jul 2020
7	Civil	Advances in Geotechnical Engineering	1	15 th – 20 th July 2020
8	Civil	Developments in Concrete and Construction.	1	23 rd – 29 th Jul. 2020.
9	Civil	Recent Trends In Technology.	1	7 th – 13 th Jun 2021.
10	Civil	Recent Trends In Water Resources and Environmental Engg.2021.	1	11 th - 12 th Jun 2021.
11	CSE	Essential Mathematics for Engineers and Researchers	1	NA
12	CSE	Digital Transformations and Pedagogies	1	NA
13	CSE	Essential Mathematics for Engineers and Researchers	1	NA
14	CSE	Two Days Workshop on Reverse Engineering	1	NA

ACADEMIC REPORT 2020-21

15	CSE	One Day Workshop on outcome based education and accreditation	1	NA
16	Electrical	Arduino	5	6 July-10 July 2020
17	ENTC	Design validation through various mode	1	9 Feb 2021
18	ENTC	Tool & Techniques for research	1	27 & 28 Jan 2021
19	ENTC	Explore Machine learning using python	1	20 Jan 2021
20	Mech.	Innovations in Electrical Engineering	1	13 th to 15 th March 2021
21	Mech.	Intellectual Property Rights (IPRs) and IP Management for Start-up	1	17 th March 2021
22	Mech.	Prototype and Process Design and Development Prototyping	1	19 th March 2021
23	Mech.	Orientation session on Intellectual Property Rights	1	27 th March 2021
24	Mech.	Orientation session on National Innovation and Start-up Policy (NISIP)	1	8 th Feb. 2021
25	General Science & Engg.	“The Bodhi Tree& SAFE Tools for Effective Online Teaching: A Hands-On Workshop”	1	18 th - 24 th June,2020
26	General Science & Engg.	Workshop on “NBA Orientation”	1	22 nd - 24 th Oct.2020
27	General Science & Engg.	Workshop on “Recent Advances in Chemical Sciences & Research” (RASCR-2020)	1	15 th - 16 th Dec. 2020
28	General Science & Engg.	National Seminar on “Current Trends in Medicinal Chemistry”	1	23 rd - 25 th March, 2021
29	General Science & Engg.	Workshop on “Research Methodology”	1	05 th - 10 th April 2021
30	General Science & Engg.	Workshop on Quality Research Paper Writing Publication & Research Methodology”	1	22 nd - 23 rd June, 2020
31	General Science & Engg.	Workshop on “LaTex for Beginner”	1	22 nd - 23 rd June, 2020
32	General Science & Engg.	Workshop on “NBA Orientation”	1	22 nd - 24 th Oct.2020
33	General Science &	Workshop on “NET/SET in	1	01 st - 02 nd

ACADEMIC REPORT 2020-21

	Engg.	Mathematical Sciences”		March, 2021
34	General Science & Engg.	Workshop on “Use of Virtual Labs”	1	09 th - 10 th March, 2021
35	General Science & Engg.	Seminar on “Applications of Differential Equations” (Online)	1	12 th March, 2021
36	General Science & Engg.	Workshop on “Cyber Forensics”	1	26 th March, 2021
37	General Science & Engg.	Workshop on “Teaching Learning Tools for Implementation of Effective Student Engagement Strategies”	1	27 th May, 2021



Research and Development

Sr.No.	Department	Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
1	CIVIL	Design of IOT based Water Quality Analyzer for Chandrabhaga River at ghat location in Pandharpur	NA	PAHSUS	NA	NA



Value Addition Program (VAP)

Sr.No.	Department	Value added courses	Date of introduction	Number of students enrolled
1	CSE	Web Development	10 th Jan To 19 th Jan 2020	29
2	ENTC	IOT & its applications	18/12/20-23-12/20	76
3	Electrical	Audino	26/12/20-30-12/20	37
4	Electrical	Python	21/6/21-25/6/21	1



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
2020-21	61	30	8	7	45

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
2020-21	71	50	--	--	50

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
2020-21	69	16	3	3	22

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
2020-21	28	18	3	0	21

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
2020-21	155	77	1	2	80