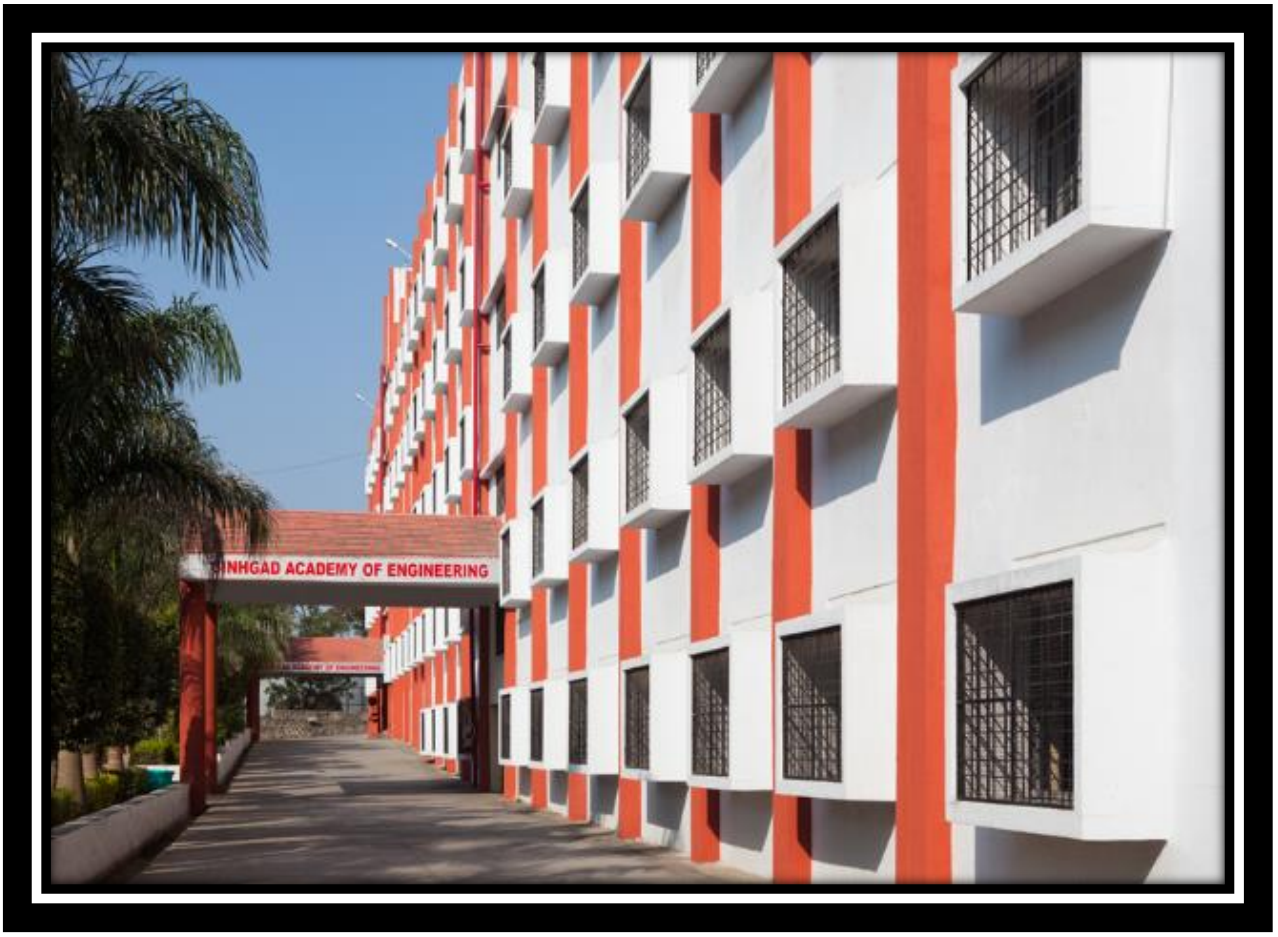
Sinhgad Technical Education Society's
Sinhgad Academy of Engineering,
Pune 411048

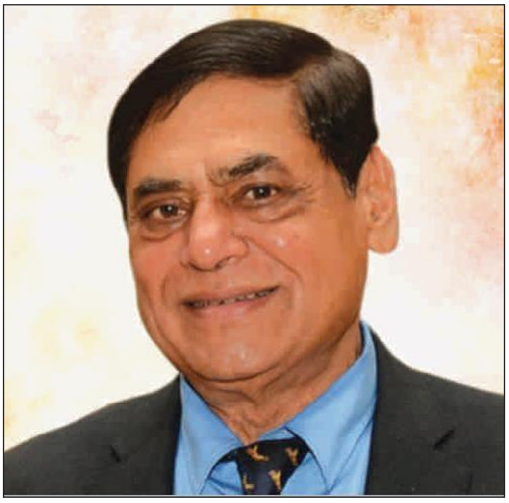
Sinhgad Institutes

PERSPECTIVE PLAN

2022-2032



OUR DYNAMIC LEADERSHIP



Prof. M. N. Navale
President
Sinhgad Technical Education Society

The Sinhgad Group of Educational Institutes, spread over Maharashtra has a presence to reckon with. The Group is benchmarked in every aspect. It struck its foundation in 1993 to transform the dream of its visionary architect Founder President Prof. M. N. Navale into a palpable reality. The entire Sinhgad Group has convincingly evolved, into the most sought-after education destination. Every Institute is duly accredited by NAAC, approved by AICTE and affiliated to Savitribai Phule Pune University. Its Smt. Kashibai Navale Medical College subscribes to the code of the IMC. Every Institute has an Independent presence with enviable state-of-the-art infrastructure and all the facilities and resources, to label it an ideal place for learning. Invariably every campus has an impressive and extensively stocked Library. It Comprises Institutes in its fold, run by capable and qualified resource people, drawn from various disciplines. There are 12 Campuses, 7,000+ Employees, 85 Institutes, 26 Schools, 70,000+ Students. Still the entire Sinhgad Educational conglomerate continues in its search for excellence.

OUR MORAL SUPPORT

Dr. (Mrs.) Sunanda M. Navale
Secretary
Sinhgad Technical Education Society

Education in general and technical education in particular must be relevant to the rapidly changing needs of the industry and business houses. The educational environment must be dynamic and quickly adaptable, so that professionals must be capable of shouldering local and global responsibilities in industrial and social sectors.

OUR SOURCE OF STRENGTH

Ms. Rachana Navale-Ashtekar
V. P. (Admin),
Sinhgad Technical Education Society

Education is an instrument to enhance the capabilities of individuals. It helps them become knowledgeable, creative and good citizens. This thought urged me to develop excellent educational facilities at the Sinhgad Institutes.

OUR SOURCE OF STRENGTH

Mr. Rohit M. Navale
V. P. (HR),
Sinhgad Technical Education Society

Over the past few decades, knowledge traits have been cultivated to achieve a level of accuracy, speed and innovation in the Indian education system. Currently, this trend has been increased significantly, which has resulted in highly specialized, dynamic, talented and qualified staff. Looking at the rapid development of these personalities, we are also committed to very good quality of teaching and learning process by maintaining high level of discipline between staff and students and achieving superiority in academic field by maintaining an atmosphere conducive to research, state-of-the-art media center laboratories and digital libraries.

THE CAPTAIN OF THE SHIP

Dr. K. P. Patil

Principal

It is widely accepted that technology is the key driver of economic growth of countries, regions and cities. Technological progress allows for the more efficient production of more and better goods and services, which is what prosperity depends on. Technical education is the key of our nation's technological progress and also the stepping stone for a country towards its journey to becoming a developed economy. Our mission at Sinhgad Academy of Engineering is to believe in and work for the holistic development of students and teachers. We seek to do this by instilling a distinct value system, a transparent work culture, and a superior academic and physical environment that fosters learning, creativity, technology transfer and share knowledge in order to build a more vibrant society. Through this, we plan to achieve our vision of producing not only good engineers but also good human beings and helps in India's technological progress and nation building through character building.

Institute started functioning in the academic year 2005. It is approved by All India Council for Technical Education (AICTE), New Delhi, affiliated to the Savitribai Phule Pune University (SPPU), Pune. Since its inception, the institute has grown in stature. The institute features a strong support staff of devoted, experienced full-time faculty members. Many of the faculties have earned their Ph.Ds. The Management encourages faculty members to seek Ph.D. degrees from reputed national institutions like IITs, as well as globally renowned universities such as Alborg University in Denmark which is well known for Problem based learning (PBL).

The institute's strategic development plan (SDP) is designed to provide a framework for the organization's various operations and goals. The institution has a Perspective/Strategic Plan in place to help it develop in a systematic, well-thought-out and phased manner. Institute's management and human resources help in implementing the program in successful manner. The college provides state-of-the art infrastructure, ICT enabled class rooms, seminar hall, library with digital access, Wi-Fi enabled campus, well-equipped computer labs, well-furnished hostels for boys and girls and dedicated faculty with ideal blend of seniors and fresh post graduates drawn from reputed universities and industry required to create excellent teaching-learning environment to mention a few which are as per the norms of AICTE. Sinhgad Academy of engineering have received a 'A' grade from the NAAC, a UGC autonomous organisation, for our academic achievements, infrastructure, co-curricular activities, and other developments.

Governance:

The management of the institute has two main committees viz. Governing Body (GB) and Local Managing Committee (LMC).

1. Governing Body(GB) :

The role of GB (Table 1) is to decide vision and objectives of the institute based on which directions to LMC and head of the institute are given. The GB approves the budget recommended by LMC. In a academic year two GB meetings are conducted. The issues which require deliberations and consultations at the college levels are taken up to the Local Management Committee.

Table 1. Governing Body Members

Sr No	Name	Designation
1.	**Prof. Maruti Nivrutti Navale** Founder President, STE Society	**Chairman**
2.	**Dr. Mrs. Sunanda M. Navale** Founder Secretary, STE Society	**Member**
3.	**Mrs. Rachana Navale Ashtekar** Vice President, STE Society	**Member**
4.	**Mr. Rohit M. Navale** Vice President, STE Society	**Member**
5.	**Mrs. Shruti R. Navale** Member , STE Society	**Member**
6.	**Shri. A. V. Deshpande** Director, STE Society	**Member**
7.	**Nominee Of AICTE** AICTE, New Delhi	**Nominee**
8.	**Director Of Technical Education** Maharashtra State, Mumbai, Ex-Officio, DTE	**Nominee**
9.	**Nominee, Savitribai Phule Pune University**	**Nominee**
10	**Nominee, Govt. Of. Maharashtra**	**Nominee**
11	**Regional Officer** WRO, AICTE, MUMBAI (EX-OFFICIO)	**Nominee**
12	**Dr. K. P. Patil** Principal, SAE, Pune-48	**Member Secretary**
13	**Shri. G.K. Shahani**	**Special Invitee**

2. Local Managing Committee (LMC)

The organizational structure of SKNCOE is a blend of professional autonomy, individual accountability and well-defined administrative structure. Principal in turn frames implementation guidelines with the help of team of HODs and Local Management Committee (LMC) and revise them from time to time based on the needs of stake holders and directions received from management. This Committee (Table 2) meets periodically to discuss various academic and non-academic issues.

Table 2. Local Managing Committee Members

Name	Designation
Prof. Maruti Nivrutti Navale Founder President, STE Society	**Chairman**
Dr. Mrs. Sunanda M. Navale Founder Secretary, STE Society	**Member**
Mrs. Rachana Navale Ashtekar Vice President, STE Society	**Member**
Mr. Rohit M. Navale Vice President, STE Society	**Member**
Mr. K. M. Gaikwad Vice Principal & HOD ENTC Engg	**Representative Teaching Staff**
Dr. Daljeet Kaur Associate Professor & HOD F.E.	**Representative Teaching Staff**
Mr. S. N. Kamat **Registrar**	**Representative Non-Teaching Staff**
Dr. A. V. Deshpande Director, STE Society and Principal , SKNCOE	**Member-Secretary**
Shri G.K. Shahani	**Special Invitee**

College Level Committee Cell:

Various cells are formed in college for the smooth and efficient management of the activities (Table 3). The cells and cell in charges are constituted by the Principal in consultation with HODs for 05 academic years. All the cell in charge are requested to discharge their duties as per the norms of institute and all the staff are requested to cooperate with the cell in charge.

Table 3. College Level Committee Members

Sr.No	Name of Cell	Faculty In-Charge	Department
1	**Student Development**	**Mr. T. S. Sargar**	**Mechanical Engineering**
	Communication and Personality Development Cell	Mr. S. S. Yevale Mr. A. B. Ingole	Mechanical Engineering Electronics and Tele. Engg.
	Student Welfare Cell	Mr. A. N. Adpanwar	Computer Engineering
	Cultural Cell	Mr. A. N. Varade	Information Technology
	Social Responsibility Cell	Dr. S. L. Bangare	Information Technology
	Sports Cell	Mrs. Daware	Physical Director
	Medical and counseling Cell	Dr. N. P. Dharmadhikari	Engineering Science
2	**Industry Institute Interaction Cell**	**Dr. S. L. Bangare**	**Information Technology**
	Training and Placement Cell	Dr. D. K. Kamat	T & P Officer
	ED Cell	Mrs. M.S. Joshi	Civil Engineering
	Research Developmentand Consultancy Cell	Dr. K. M. Gaikwad Dr. N. P. Dharmadhikari	Electronics and Tele. Engg. Engineering Science
	Internship Cell	Mr. Y. K. Dhage	Mechanical Engineering
	Technology Business Incubation Cell	Dr. A. P. Kalmegh	Mechanical Engineering
	Startup Incubation Cell	Dr. K. M. Gaiwad Dr. S. P. Saptale	Electronics and Tele. Engg. Engineering Science
	Intellectual Property Right Cell	Dr. N. P. Dharmadhikari	Engineering Science
3	**Academic Cell**		

	IQAC Cell	Mr. D. W. Gawatre	Civil Engineering
	Examination Cell	Dr. S. R. Patil	Mechanical Engineering
	Examination Cell	Mr. M. K. Nivangunge	Computer Engineering
	Purchase Committee	Mr. A. N. Adpanwar	Computer Engineering
	Library Cell	Dr. K. M. Gaikwad Dr. N. P. Dharmadhikari	ENTC Engineering Engineering Science
	Website Cell	Mr. A. P. Rajput Mr. Sagar Khopade	ENTC Engineering Information Technology
	Alumni Cell	Mr. Shyam Ladkat	Mechanical Engineering
	Women Development Cell	Dr. R. V. Patil Mrs. P. S. Banagare	ENTC Engineering Information Technology
	College Magazine Cell	Mr. V. Ramnathan	Mechanical Engineering
	Admission And Induction Program Cell	Dr. Daljeet Kaur Dr. N.P. Dharmadhikari	Engineering Science Engineering Science
4	**Grievances and Redressal Cell**	**Dr. K. M. Gaikwad**	**ENTC Engineering**
	Anti-Ragging Cell	Mr. A. B. Ingole Mr. A. N. Adpanwar	ENTC Engineering Computer Engineering
	OBC Cell	Mr. K. C. Salunke	Mechanical Engineering
	SC/ST Cell	Mr. S. P. Saptale	Engineering Science
	Women Grievance Cell	Mrs. P. S. Bangare	Information Technology
	Grievance Redressal Cell (Staff)	Mr. R. B. Bajare	Civil Engineering
	Anti-Sexual Harassment Cell	Dr. J. P. Shinde	ENTC Engineering
	Minority Cell	Dr. K. M. Gaikwad Dr. Daljeet Kaur	ENTC Engineering Engineering Science

PERSPECTIVE PLAN

The governance of the institution is reflective of and in tune with the vision and mission of the institute

VISION

उत्तमपुरूषान् उत्तमाभियंतृन् निर्मातुं कटिबद्धा: वयम्।

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

MISSION

Holistic development of students and teachers 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."

The policy statements and action plans for fulfillment of the stated mission are described in terms of short- and long-term goals as mentioned below

Long term goals

- To serve as Engineering Knowledge Centre for Society in General.
- To initiate Research in focused areas from Electronics and Telecommunication Engineering department, Computer Engineering department, Information Technology department, Civil Engineering department and Mechanical Engineering department
- To form Research Centre for Doctoral programs
- To strengthen the relationship among Industry and Institute Interaction under III cell activity and to offer Expertise for Projects, Training andConsultancy.
- To have 100 % Ph.D. holder faculty members in all departments.
- Modernized equipment in laboratories and workshops to be setup to facilitate revenue generation and skill development with new advanced machinery.

Short term goals

- As per the present needs of industries, develop the technical knowledge and skill among the student for making them competent to face the challenges due to globalization.
- Qualitative Academic improvement towards excellence.
- To get accreditation with excellent grades in NAAC.
- To get all programs accreditation with good grades in NBA.
- Improvement in Cadre ratio in all departments
- To strengthen Industry liaison by way of Faculty Training, Students Internship and projects, Testing, MOUs etc.
- To promote R & D activities in all Departments in liaison with industry.

COLLEGE GROWTH PLAN 2022 – 2032

1. Research & Development

1.1 Research Projects

Strategy 1. To Promote advance research and scholarly enterprise:

- To appoint Faculty with good research and scholarship potential.
- To support Faculty members in pursuing Ph.D.
- To identify and support programs and areas of emerging distinction.
- To have a Center of excellence in each emerging technology by 2027
- To establish HPC center in collaboration with IIT/ NIT by 2026.
- To provide opportunities for UG research experience by organizing National and International Technical Events like conferences and consortium.

Strategy 2. To improve research collaborations with Industry:

- To stimulate long-term, mutually beneficial industrial collaborations (2025 target: 25% Faculty with at least one industry research / consulting contact per year).
- To increase appreciation of entrepreneurship among students and Faculty Members.

Strategy 3. To obtain research grants from various Government sources such as AICTE, DST, UGC, DRDO, SERB, ISRO, RGSTC, BCUD of SPPU, Pune etc.

- To fetch the grant up to INR 50 lakh under MODROBS (Modernization and Removal of Obsolescence of Lab Equipment/Machinery) scheme of AICTE by 2025.
- To motivate the faculty members to get the funding under the category of Research Promotion Scheme (RPS) for innovation in established and newer technologies.

1.2 Consultancy

Strategy 1. To provide consultancy services such as material testing, planning and design, technical third-party audit, structural audit in Mechanical and Civil Engineering, High computing labs in Computer, Testing labs with high quality equipment's such asSpectrum analyzer etc in Electronic & Telecommunication Engineering and Information Technology to Pune, Nasik, Mumbai Thane and Ahmednagar infrastructure firms, auto industry and other surrounding areas.

To have a tie up with Government College of Engineering, DIAT, ARAI, IIT, NIT, BATU for consultancy and R&D activities.

Strategy 2. To work Under Unnat Bharat Abhiyan (UBA) and Unnat Maharashtra Abhiyan (UMA) and provide expertise to nearby Talukas, and raise revenue for the institute.

To get enrolled in the empaneled list of institutes recognized by Government of Maharashtra for consultancy and technical audit work.

1.3 Intellectual Property Rights (IPR)

Strategy 1. Encourage registration of IPR by providing financial support to students and faculty members.

- To establish Intellectual Property Right cell for smooth conduction of IPR activities.
- To have more number of patents filed (2025 target: two patents per Dept).
- To make commercialization of Patents according to the need.
- To get more number of registrations for various types of IPR such as Design Registration, Copy Right, Trade Mark, Patent and Geographical Indications (if any).

- To implement the guidelines given in National Innovation and Start up Policy (NISP by AICTE).
- To establish Institutions Innovation Council (IIC) cell and conduct various activities related to it.

1.4 Internal Revenue Generation (IRG) Scheme.

Goal: Generate income for sustaining SKNCOE growth plan on a No-Profit basis to the tune of Rs.10 Crore by 2032.

Strategy 1. Introduce min. 30 hours/semester value addition technical programs using SAE's infrastructure in evening sessions after regular college hours:

- IT Courses on C, C++, Python, R programming, Data structures, Open-Source C Programming, JAVA and .Net, Big Data Sciences, AI, ML, Android using current lab set-up and industry experts initially and own trained Faculty thereafter.
- Electronics & Telecommunication Engineering Courses on VLSI embedded systems techniques, Virtual instrumentation using Lab-view software, High computing lab etc
- Civil Engineering courses such as AutoCAD, Revit, STAADPro, ETABS MS Project, Primavera etc
- Mechanical Engineering Courses on CAD/CAM/CAE, CNC / VMC training, CATIA, MATLAB and SIMULINK, Robotics, ANSYS etc.

Strategy 2. Introduce Competitive exams like GATE/ CAT/GRE/TOEFL etc. coaching to achieve at least 20% number of students at NIT/IIT/Any other reputed engineering or management colleges for PG.

Strategy 3. Introduce Finishing School: 30 hour per semester courses on Soft Skills and hands-on skills development for all streams of graduation under TPO for Placement and revenue generation.

Strategy 4. Extend the IT infrastructure for conduction of various examinations by external agencies such as MPSC, UPSC, NTA, DTE, IBPO, JEE, NEET etc.'

2. Strengthening Industry Institute Interaction:

2.1 Internship Program

2.2 Strategy 1: To promote industry institute interaction for students through internshipPrograms.

- To develop industry institute interaction cell in each department.
- To collaborate with present and past student's parents and alumni associated with various industries and PSU's.
- To promote development of Mini Projects through internship programs.

Strategy 2: To organize guest lecture / seminar of industry personnel

- To invite industry personnel in the field of mechanical, computer, mechatronics, robotics, automations, data science, digital communication, VLSI, embedded systems etc.
- To invite alumni associated with industries as speaker for seminar/talks on current fields of engineering and technology.

2.3 Industry institute interaction through Consultancy

Strategy1: To provide consultancy services (such as material testing, planning and design, technical third-party audit, structural audit) in the various field of engineering such as Mechanical, Computer, Electronic & Telecommunication Engineering and Information Technology to Pune, Nasik, Mumbai Thane and Ahmednagar infrastructure firms, auto industry and other surrounding areas.

Strategy2: To get enrolled in the empaneled list of institutes recognized by Government of Maharashtra for consultancy and technical audit work.

2.4 Development of laboratories in association with industries through MoU Strategy

1: To collaborate with industries in and around Pune for developing the laboratories as per industry standards.

- To encourage the adoption of the laboratories by the various industries for technological infrastructural up gradation from time to time.

Perspective plan proposed by Principal

Sr. No.	Goal	Metric	2022 - 2023	2023 - 2024	2024 - 2025	2025 - 2026	2026 - 2027	2027 - 2028	2028 - 2029	2029 - 2030	2030 - 2031	2031 - 2032
1	**Research & Development**	**Research Projects** Promote advance research and scholarly enterprise	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Improve research collaborations with industry	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Obtain research grants from various Government sources such as AICTE, DST, UGC, DRDO, SERB, ISRO, RGSTC, BCUD of SPPU, Pune etc	0%	10%	20%	30%	40%	50%	70%	80%	90%	100%
		Consultancy Provide consultancy services (such as material testing, planning and design, technical third party audit, structural audit) in the various field of engineering such as Mechanical, Computer, Electronic & Telecommunication Engineering and Information Technology to Pune, Nasik, Mumbai Thane and Ahmednagar infrastructure firms, auto	10%	20%	30%	40%	50%	70%	80%	90%	100%	100%

		industry and other surrounding areas.										
		Work Under Unnat Bharat Abhiyan (UBA) and Unnat Maharashtra Abhiyan (UMA) and provide expertise to nearby Talukas, and raise revenue for the institute.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Intellectual Property Rights (IPR) Encourage registration of IPR by providing financial support to students and faculty members.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Internal Revenue Generation (IRG) Scheme **Goal**: Generate incomefor sustaining SAE growth plan on a No- Profit basis to the tune of Rs.10 Crore by 2032.	10%	20%	30%	40%	50%	70%	80%	90%	100%	100%
		Introduce min. 30 hours/semester value addition technical programs using SAE's infrastructure	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

		in evening sessions after regular college hours										
		Introduce Competitive exams like GATE/ CAT/GRE/TOEFL etc. coaching to achieve at least 20% number of students at NIT/IIT/Any other reputed engineering or management colleges for PG.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Introduce Finishing School: 30 hour per semester courses on Soft Skills development for all streams of graduation under TPO for Placement and revenue generation.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Extend the IT infrastructure for conduction of various examinations by external agencies such as MPSC, UPSC, NTA, DTE, IBPO etc.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
2	**Strengthening Industry Institute Interaction**	**Internship Program** Promote industry institute interaction for students through internship programs.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

		Organize guest lecture / seminar of industry personnel	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Industry Institute Interaction through Consultancy Provide consultancy services (such as material testing, planning and design, technical third party audit, structural audit) in the various field of engineering such as Mechanical, Computer, Electronic & Telecommunication Engineering and Information Technology to Pune, Nasik, Mumbai Thane and Ahmednagar infrastructure firms, auto industry and other surrounding areas.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
		Get enrolled in the empaneled list of institutes recognized by Government of Maharashtra for consultancy and technical audit work.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

		Development of laboratories in association with industries through MoU Collaborate with industries in and around Pune for developing the laboratories as perindustry standards.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

Perspective plan year wise progression proposed by Principal and approved by