



NARULA INSTITUTE OF TECHNOLOGY



Strategic Plan

2015-2020

&

2020-2025



General Information



Location

- 81, Nilgunj Road, Agarpara. Kolkata - 700 109



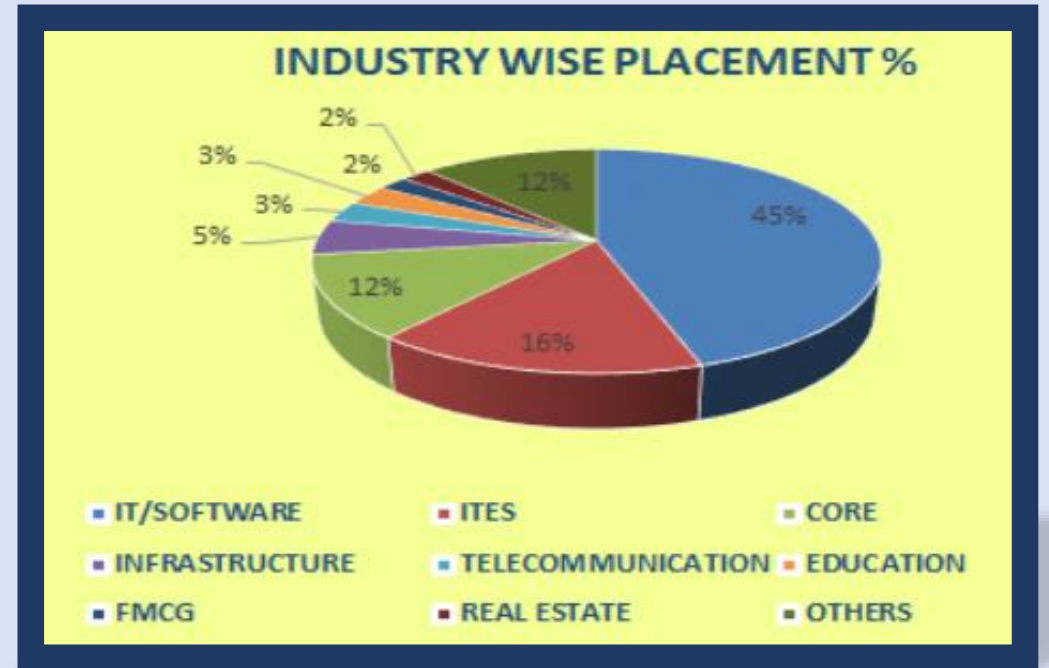
Programs

- Multidisciplinary Programs



Placement

- Over 86 %





Vision & Mission



- *To make the Institute excellent in technological education and research by imparting equitable, inclusive, ethical, flexible and multidisciplinary knowledge to budding technologists to serve the society.*



- *To establish continuously improving academic ambience in the Institute in order to prepare the students with beyond curriculum knowledge, creativity, innovation, problem solving abilities, teamwork, communication skills etc. for their holistic development.*
- *To collaborate with Institutes of higher education, Professional Societies, R&D and Industrial organizations for continuous improvement of academic, research environment in the Institute and to build a strong Industry-Institute interface.*
- *To promote and nurture entrepreneurial and innovative quality of the students providing proper education, training and supportive facilities so that future entrepreneurs emerge with flying colors.*
- *To strengthen quality and knowledge-base of faculty through faculty development programs for continuous upgradation to remain in tune with dynamically changing technology.*
- *To become a responsible contributor in the socio-economic development of the society through excellence in education and research .*

Quality Policy



- ✦ Adoption of appropriate standards and practices for good governance, to bring in transparency of all operations and thereby improve credibility at all levels.*
- ✦ Industry-ready professionals to be developed through interactive teaching learning process involving state of the art class rooms, laboratories, libraries, corporate exposure and innovative project work.*
- ✦ Higher studies/research for faculty & staff to be encouraged for up gradation of knowledge through participation in Quality Improvement Programs, Seminars, Workshops, Webinars etc.*
- ✦ Laboratory facilities would be upgraded in emerging areas to promote R&D activities including participation in Govt. and Industry funded projects.*
- ✦ Industrial consultancy to be carried out in an effective manner for developing sense of accomplishment.*
- ✦ Interaction with Professional Societies would be encouraged for the professional growth and development of the students, faculties and staff for mutual benefit.*
- ✦ NBA Accreditation for all AICTE approved programs to be obtained at the earliest and maintained on a long-term basis.*
- ✦ The innovative and entrepreneurial skills of the students to be nurtured through Innovation & Incubation center, finally culminating in start-ups.*



STRENGTH:

- NAAC Accreditation
- Enlisted NIRF ranking successively for last 4 year
- QS Rating- 3 Star
- FIST Grant by DST
- Host institute declared by MSME to support entrepreneurship
- Autonomous Institute
- MOU with different industries and institutes
- Dedicated and qualified Faculty and staff members
- Well equipped advanced laboratories and high-end Software
- Well furnished centralized computer labs with LAN connection
- Wi-Fi facilities
- Well advanced Library
- e- Journals (LAN Based)
- NPTEL local chapter
- World Bank funded TEQIP Project (phaseII)
- Funded Projects from DAE,UGC,AICTE,DST etc
- Large number of Research publication by the faculty members and students
- Good Academic ambience
- Strong Mentoring and Feedback System
- Encouragement of the faculty members for higher studies and research
- NBA Accreditation for eligible B.Tech and M.Tech Program



WEAKNESS

- Industry experienced faculty members
- Collaborative research project with industry



OPPORTUNITIES

- NBA accreditation for all programs
- NAAC Accreditation with higher grade
- International accreditation
- Enhance interaction with industry
- Collaborative research project with industry
- Academic Excellence
- Strengthen the Alumni Association
- Strengthen the innovation and incubation cell
- External Funding for research project and innovative program
- Faculty Student exchange programme with National & Foreign Universities
- Collaboration with National and International Institutes of repute and other renowned organization.



CHALLENGES

- Cope up with rapid technological change
- Accustom with the socio-economic development
- To build up more number of future Entrepreneur from student
- Industry sponsored live project



Approval & Accreditation



- **AICTE**

Approved



- **UGC- 2F & 12B**

Approved



- **NAAC (B+ Grade)**

Accredited



- **NBA for eligible B.Tech & M.Tech Program**

Accredited



- **NIRF**

NIRF ranked for last four year



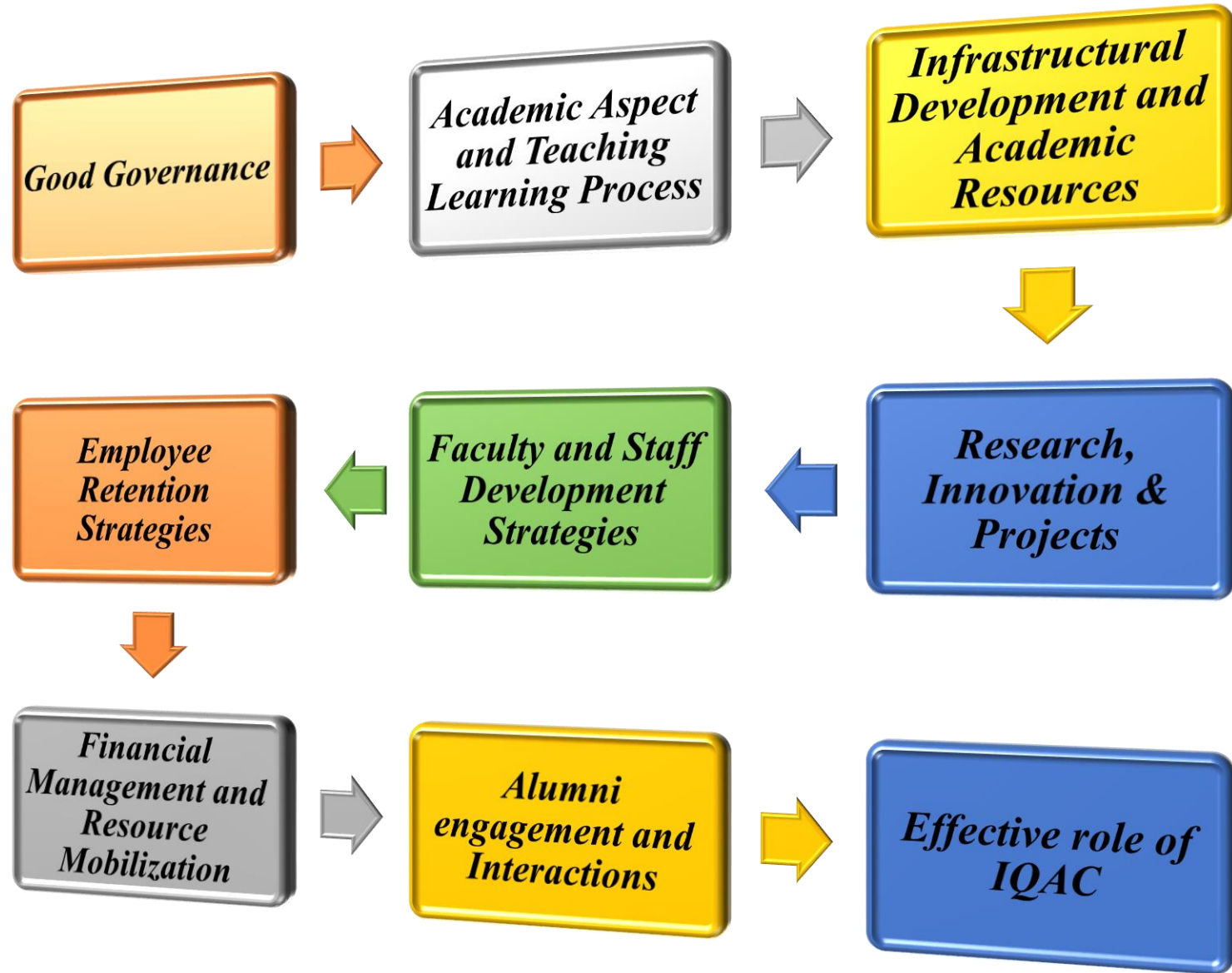
- **QS RATING**

Three Star



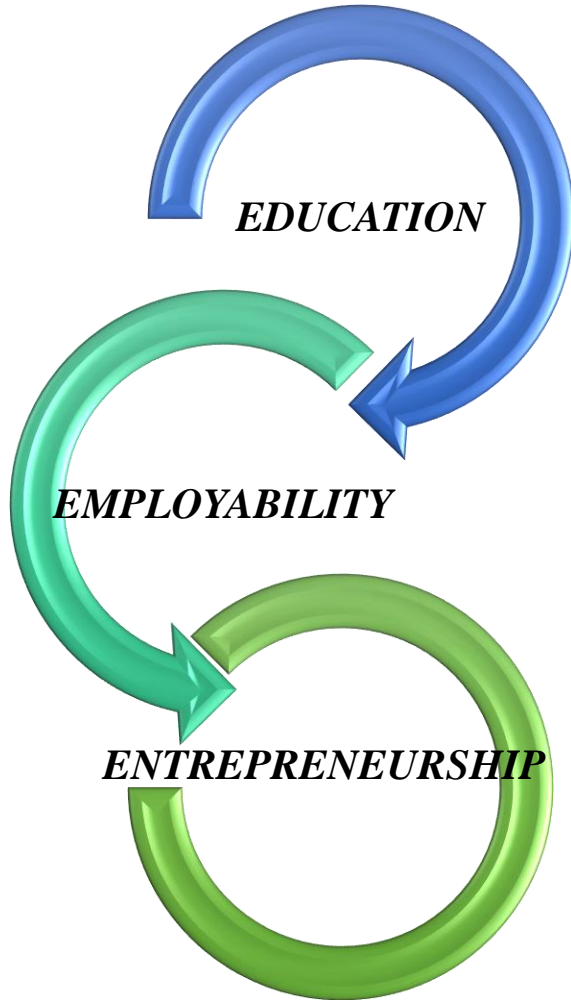


Institutional Strategic Goal





Education Policy



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Elicit : Knowing students' prior knowledge



Engage : Engaging students' interest and curiosity



Explore : Helping students to solve/explore problems, building concepts through first hand experience



Explain : Helping students to build the concept/knowledge further



Elaborate : Students formalise and apply their learning



Extend : Students apply or extend the concepts and skills in new situations



Evaluate : Teachers evaluate the students

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Employability Policy



Opportunities for students to develop employability skills, e.g., through beyond curriculum training, group project work, presentations, student exchange programs, internship subjects, industry and community project units and mentoring programs

Employability

Work experience through internships and Industrial visit & Training

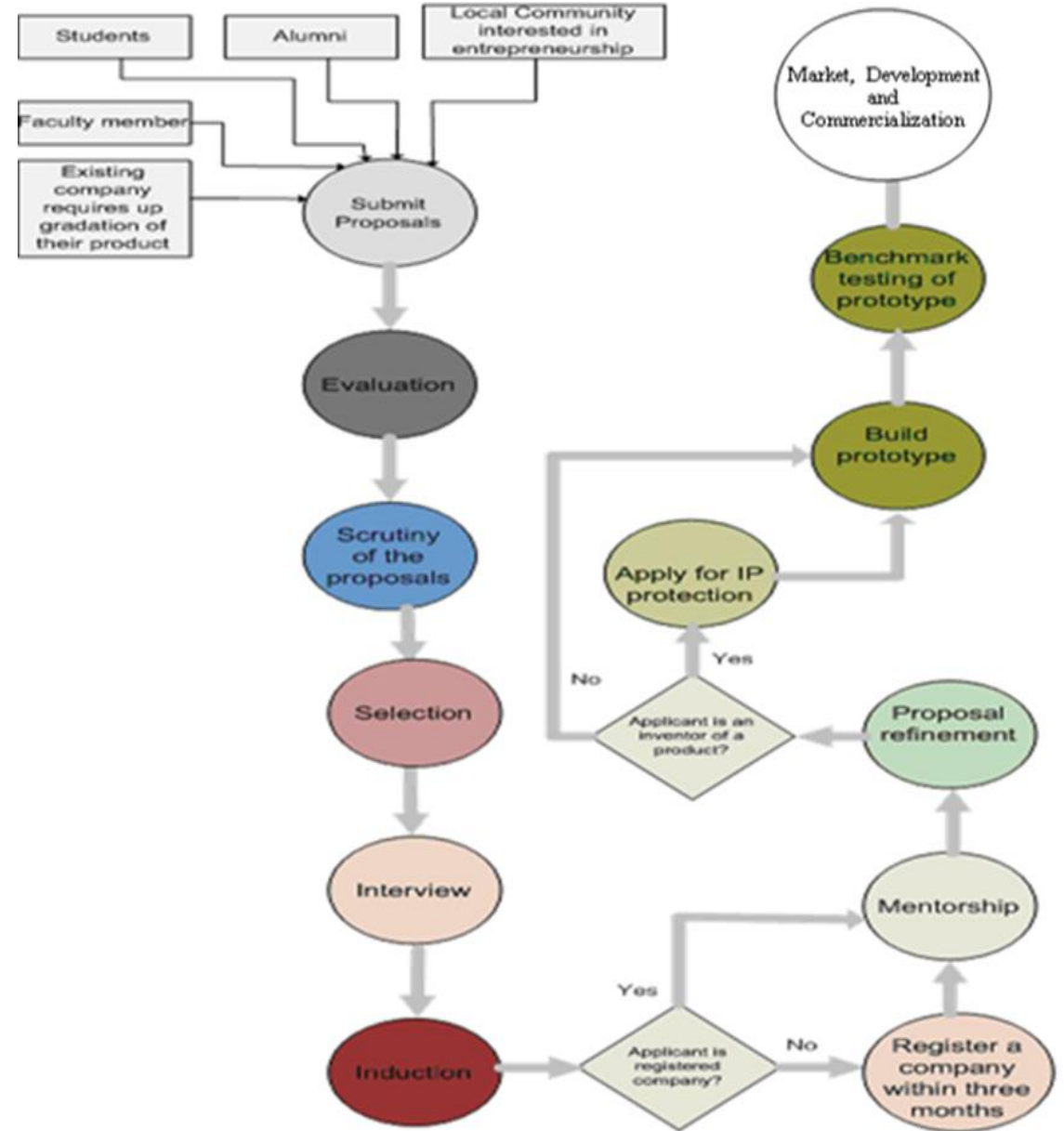
Involving in extracurricular activities such as cultural, sports, public speaking, community activities etc. through different clubs



Entrepreneurship Policy

The objectives of the Innovation and Start-up Policy are as follows:

- ✓ *Develop new entrepreneurs by providing techno-commercial guidance so that they can establish their own business.*
- ✓ *Help existing entrepreneurs to improve their products, process and systems to meet the challenges*
- ✓ *Advise entrepreneurs to diversify their business by providing them with expert opinions and guidance so that they can compete with global players.*
- ✓ *Build capabilities in the area of new products, applications and cost-effective ways by providing training*





Faculty Recruitment & Retention Policy



Employment

- *Effective selection process*
- *Uniform opportunity*
- *Providing career direction*



Engagement and welfare measures

- *Distribution of uniform work load*
- *Promote work life balance*
- *Culture of recognition*
- *Research environment*
- *Health Policy*
- *Maternity, Lien and other leave facilities*



Growth Opportunity

- *Annual appraisal System*
- *FDP, SDP, STTP for all Teaching staff*
- *Recognition and Reward system*
- *Support to upgradation of knowledge*



Strategic Plan for the period of 2015-2020

Strategic plans are most important for any institution to grow and develop vision and mission in a competitive situation. It is a process of defining its strategy and to guide the implementation of the strategy. *Narula Institute of Technology* has planned the following milestones to provide quality education under the supervision of BOG, BOS so that students would be responsible human being to adopt challenges in the society.

Accreditation & Ranking	Research and Development	Library, ICT and Physical Infrastructure / Instrumentation	Human Resource Management	Industry Interaction / Collaboration	Outcome of Students	Curriculum Development	Teaching - Learning & Evaluation
<ul style="list-style-type: none"> · NAAC a) A+ by 2020 · International accreditation/ Ranking: QS Rating- a) 4 STAR for institute by 2019 b) 3 STAR by one department by 2019 · NBA a) Accreditation of all eligible UG programs by 2017 b) Accreditation of UG program of ME by 2020 	<ul style="list-style-type: none"> · All faculty members to be enrolled for PhD by 2017 and at least 50% faculty to be registered for PhD by 2019. · 50% faculty from each department should have at least One publication in SCI/SCOPUS/Web of Science in a year by 2019 and to be increased year by year. · Total publications to be more than 300 by 2020. 	<ul style="list-style-type: none"> · Enhance the collection of Library books and other library resources · Subscription of E-Journal & E-books to meet the clientele needs · Optimum circulation of library resources · Make a depository of Question Bank · Automation of library by LMS. · More space allocation for library 	<ul style="list-style-type: none"> · Development of teaching-learning skills and work efficiency of faculty and staff by conducting FDP, SDP, STTP, Motivational seminar in every year · Health policy for every staff members by 2020 · Leave facility for Ph.D. pursuing faculty · Conduction of Periodical staff meetings · Infrastructural support 	<ul style="list-style-type: none"> · Industry professional to be involved in different committee like BOS, IQAC, Academic Council, BOG etc. · Feedback from industry people and alumni along with others stakeholders to be considered in framing curriculum and syllabus. · MOU with industry to be increased 	<ul style="list-style-type: none"> · Support to students to Increase admission in higher studies <ul style="list-style-type: none"> · Beyond curriculum training on different emerging topics to enhance the technical knowledge · Aptitude and soft skill training to enhance their skills · International exposure to the student · 80% placement in each Department by 2019 	<ul style="list-style-type: none"> · Restructure of Curriculum and syllabus of each programme to be carried out by considering feedback from all stakeholders and social needs following the guidelines of AICTE · Revision of curriculum to be made after every 2 to 3 years · Introduction of MOOCs as Mandatory requirement to get Hons. in UG Programme 	<ul style="list-style-type: none"> · 100% Faculty to go through Pedagogical training · Use of Technology- & ICT · Academic collaboration with Institute of Repute – National & International · Strengthening OBE · Create a learner centric environment. · Introduction of project based learning for the skill development of the students in the curriculum



Strategic Plan for the period of 2015-2020 (Contd.)

Accreditation & Ranking	Research and Development	Library, ICT and Physical Infrastructure / Instrumentation	Human Resource Management	Industry Interaction / Collaboration	Outcome of Students	Curriculum Development	Teaching and Learning
<ul style="list-style-type: none"> • Eligible PG program accreditation by 2017 • All Programs accreditation by 2020 	<ul style="list-style-type: none"> · External research-grant should be availed by each department by 2019 · Other grants from the different funding agencies should exist in all departments by 2019 · Involvement of students towards research and students' paper publications/ presentation in Journal/ Conference from each department by 2018 and the number will be continuously increased · Innovation lab to be established by 2016 in collaboration with industry · Innovative student projects from each Department by 2017 and it will be continuously increased · Students to be encouraged for Start-ups and entrepreneurship by 2018 · Tie up with MSME to enhance entrepreneurial skill by 2018 · MOU with institute of repute to be increased by 2018 · Completion of PhD by at least two In-house faculty by 2020 from each department · Faculty members should be encouraged to be involved in consultancy work using their own expertise to bring at least 5 lakhs as consultancy. · All departments should make a MOU with the academic and research organisations to increase the quality of academics and research. 	<ul style="list-style-type: none"> • Remote access of e-materials by 2020 		<ul style="list-style-type: none"> • Industry internship to be introduced • Invited talk on recent trends in relevant field by industry experts 			<ul style="list-style-type: none"> • Adoption of Problem based and Experiential teaching learning methodology • Development of Question Bank • Continuous Evaluation through class test, quiz, assignment, debate etc. • Digitalisation of evaluation of end semester examination



Strategic Plan for the period of 2021-2025

Accreditation & Ranking	Research and Development	Library, ICT and Physical Infrastructure / Instrumentation	Human Resource Management	Industry Interaction / Collaboration	Outcome of Students	Curriculum Development	Teaching and Learning
<ul style="list-style-type: none"> • NAAC To get the A+ grade • NBA accreditation of all UG and PG programs by 2022 • International accreditation/ Ranking: QS Rating- <ul style="list-style-type: none"> a) To achieve 5 STAR for institute by 2022 b) To achieve 5 STAR for any department by 2023 • NIRF <ul style="list-style-type: none"> a) Within top 150 Engineering Institutes by 2021 b) Within top 100 Engineering by 2023 c) Up gradation of ranking by 2025. 	<ul style="list-style-type: none"> • 50% of the total faculty to be awarded with PhD degree by 2025. • All of the faculty from each department should have at least two publication in SCI/SCOPUS/Web of Science in a year and the number of publication to be increased year by year. • In the period 2020-2025 total publication should be more than 500 + • External research-grant should be availed by each department. 	<ul style="list-style-type: none"> · Further increase & development of Library materials in Physical and online form. · More number of Subscription of E-Journal & E-books to meet the clientele needs. · Library infrastructure development. · NDLI membership with library of renounced institute- ISI,IIT's and remote access of e resources. 	<p>Organization of</p> <ul style="list-style-type: none"> • FDP, STTP, Workshop, seminar on IPR related programme. • Outreach programme by each department one per semester 	<ul style="list-style-type: none"> · Number of MOU with industries to be increased. · Industry internship and special educational tour for students to be conducted more frequently. · Industry sponsored Lab to be developed. 	<ul style="list-style-type: none"> • More opportunity to create for International exposure of students. • Training for the students to appear in students starting from 4th Sem & continue to 6th Sem (i.e. 4th ,5th , 6th Sem through online mode beyond class hour 2/3 subject per semester , one and half hours per week of each subjects). • more students should be encouraged for higher studies. • Involvement of the students in research activity should be increased. • Participation in different level project and idea competition to be increased. • more students should be encouraged in the 	<ul style="list-style-type: none"> · Restructure of Curriculum of each of the programme based on the guideline of AICTE · Continuation of value added courses (BCT) · Introduction of MOOCS courses and CBCS(choice based credit system) system. 	<ul style="list-style-type: none"> • Introduction of new programs • More market Relevant and futuristic skill-based courses to be introduced • Pedagogical Innovation- to be encourage and introduce in teaching-learning • Use of Technology to be increased • Enhancement of flip learning Introduction of Blended mode of teaching.



Strategic Plan for the period of 2021-2025

Accreditation & Ranking	Research and Development	Library, ICT and Physical Infrastructure / Instrumentation	Human Resource Management	Industry Interaction / Collaboration	Outcome of Students	Curriculum Development	Teaching and Learning
	<ul style="list-style-type: none">• Other grants from the different funding agencies should exist in all departments.• Students' research paper publication/ presentation in Journal/ Conference from each department to be increased.• More initiatives should be taken to encourage the students for Start-ups and entrepreneurship.• Development of more number of Innovation Lab in collaboration with CII to be established by 2025.• Faculty members to be involved in consultancy work using their own expertise.• More number of MOUs to be signed by each department with the academic and research organisations to increase the quality of academics and research in the Institution.		<ul style="list-style-type: none">• training in file management, clerical and secretarial works of non-teaching staff				

*Thank
You!*



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