6- Governance, Leadership and Management

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

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Response:

VISION :

Vision

To emerge as a premier technical and engineering institution in the country by imparting Quality Education and thus facilitate our students to blossom into dynamic professional so that they play a vital role for the progress of the nation and for a peaceful co-existence of our fellow human being.

MISSION :

Prathyusha Engineering College will strive to emerge as a premier Institution in the country by

- Providing state-of-the-art infrastructure facilities
- Imparting quality education and training through qualified, experienced and committed members of the faculty
- Empowering the youth by providing professional leadership
- Developing centres of Excellence in frontier areas of Engineering & Technology
- Networking with Industry, Corporate and Research Organizations
- Promoting Institute-Industry partnership for the peace and prosperity of the nation

Nature of Governance:

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

Perspective plans:

The management has the vision to emerge as a premier technical and engineering in the country and it is driven by the Governing Council of the Institution. The top management headed by the Chairman ensures that periodical meetings of the Governing Council are conducted to monitor the progress.

The institution has a perspective plan for Consistent Development of Students and Staff, Modernization of the existing facilities, implementation of new ventures for R&D, expansion of infrastructure by means of laboratories and library resources. Management meeting with Principal, HODs, and Head of various cells like Placement Cell, EDC, etc. is conducted on a regular basis to analyze the progress and plan for further execution.

The academic plan (semester wise) is prepared by the Principal after having discussions with the HODs. All activities including industrial visits, conferences, workshops, seminars, FDPs, association activities, club activities, sports tournaments, recruitments and College level functions are planned in accordance with academic schedule of the affiliating University.

All information and suggestions reach from bottom to top and from top to bottom in a constructive way and this approach supports for successful interaction, feedback, team work and new ventures.

> **As Governing Council member,**
- Decisions on administrative and academic matters
- Budget approval
- Decisions on the addition of new programmes and change in intake
- Sanction for activities - academic and non-academic
- Decisions on recruitment
- Improving infrastructure facilities
- Approval to procure major equipment
- Enhancing general amenities

GOVERNING COUNCIL MEMBERS :

NAME	DESIGNATION
Mr.P. Raja Rao	Chairman
Ms.P.Prathyusha,	CEO,Member
Ms. T.P. Shakila	Member
Sri. P. Charan Teja	Member
Mr. M. Vasu, Advisor	Member
Dr. P.S.R Murthy	Member, Adjunct Professor University of Madras
Dr. Navaneetha Krishnan	Member, ADVISOR AVIT
Dr. Manoharan S	Member, Pro-Vice-Chancellor AMET University
All Department HOD's	Member
IQAC COORDINATOR	Member
Mr.R.Gunasekaran Thayakaran	Director of Placement and training, PEC
Dr. Ramesh P.L.N.,	Principal & Member Secretary

MISSION

- Providing state-of-the-art infrastructure facilities
- Imparting quality education and Training
- Empowering the youth by providing professional leadership
- Developing centres of Excellence in frontier areas of Engineering & Technology
- Networking with Industry, Corporate and Research Organizations
- Promoting Institute-Industry partnership

Implementation Strategies to ensure the Progress towards Vision

Providing state-of-the-art infrastructure facilities

Equipments & Hardware	Advance Learning Tools
Providing state-of-the-art infrastructure facilities	
Software	E-Governance
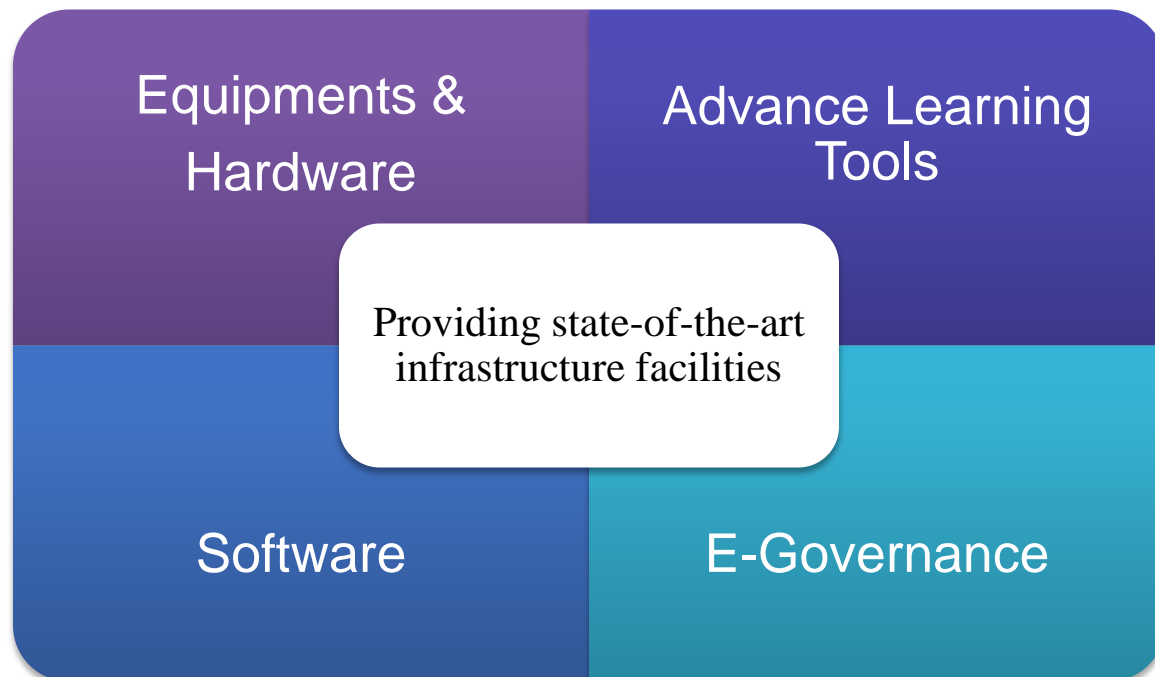
State-of-the art infrastructure is maintained in all laboratories to cater to the requirements of smooth and effective learning process. Infrastructure facilities of each department are upgraded every year with the recent hardware and software. Heads of departments, lab in-charges, Club and Centers of Excellence Coordinators will identify the new requirements and upgradations over the existing infrastructure based on the plan of research and development activities for the forth coming academic year and submit to Head of Institution during the end of each academic year.

The proposals will be assessed during the Management Meeting and Governing Council Meeting and suggestions and approval for the proposals will be given by the management. Respective heads of the departments and Central Purchase Coordinator will pursue with the purchase and installation of the new equipments and upgradation of the existing systems and equipments.

Imparting quality education

Qualified, Experienced and Committed members of the faculty	Trainings (Internal, External, Placement, Company Specific) & Cloud Based Practice Portal
Imparting Quality Education	
Technical Clubs, Centers of Learning (Knowledge Updation, Industry Experts Interaction, Peer Learning, Guided Self Learning, Certifications)	Skill Development Academy (Courses by IITs, MNCs, World Class Universities)

Quality Engineering Education is the main motto of this Institution and is ensured through qualified, experienced and committed members of the faculty.

Quality of the faculty is maintained as per the norms of the approving body and the affiliating university as well as the standards of the Institution. Institution strives to ensure the quality of the faculty by continuous learning and skill upgradation through Faculty Development Programmes, Workshops, Weekly Technology Upgradation Meetings, internships, etc. Faculty Development

Programmes are conducted during every semester on recent topics and current technological trends to prepare themselves ahead of the change in Curriculum. All faculties are encouraged to undergo online courses offered by IITs through NPTEL and/or various online courses offered by World Class Universities through COURSERA, EDX, UDEMY, etc. Faculty members are encouraged to pursue their research work and publish their research outcomes in national n international Conferences and Journals.

Imparting training

Various Training Programs related to skill development and placement readiness are conducted right from the First Semester onwards towards equipping the students with the necessary skills expected by Industries.

Engineering Orientation Program is conducted in the first semester to align the students with the Engineering Education and learning methodologies. Soft skills' training is conducted for the second year students to groom them for the Industry Standards. Various activities for interpersonal and intra-personal skill development are conducted as part of this training program. Team playing, self introduction, professional turn-out, group discussion, etc are conducted to ensure the professional development of students' right from the first year onwards.

Aptitude training is given for the second year and third year students to enable them to prepare themselves for the placements lined up during the seventh semester. Regular aptitude practice is ensured through the online cloud based practice portal available to all students. This cloud based online portal is available to these students at all times 24x7 until the student completes his four years of course. Students can practice aptitude, verbal and coding in this portal gradually at their own pace of learning. Faculty mentors are assigned to guide the students in learning and practicing the necessary skills on this portal.

Technical training is conducted for the students from their 5th semester onwards to ensure their placement readiness. Cloud based online practice portal is provided to the students for their continuous learning, upgradation and preparations.

Internal Trainings:

Prathyusha Engineering College has high priorities in skill development of students to ensure career opportunities and is envisaged through internal trainings and practice portal training. PEC aims placing all the students irrespective of their academic performance. All students those whoever registers for placement will get placed in the Industries suiting to their technical skills, subject knowledge, interested domain, verbal and aptitude skills. Students with/without Backlog and History of arrears are also placed by imparting special placement

training. Conducting the theory courses related to computer programming like Problem Solving using Python for all I Year students, C Programming, Data Structures, Database Management Systems, Web technologies and Internet Programming are conducted in compute laboratory. It is a unique practice at Prathyusha Engineering College which helps the students to practice hands-on of all the concepts that they learn in the course.

The training department identifies the requirements of various Industries while recruiting freshers and plans for equipping the students towards meeting the expectations of recruiters. These training departments add courses from their first year itself to mould them properly towards the employability skills.

Students are trained in Python, C, C++, Java Programming, aptitude skills, Soft skills, etc., by expert faculty members. Exclusive time slots are allocated for each batch of students from I Year to IV Year. The resources are computer labs specially designed for placement activities are utilized for the same. These labs provide unique sophistication towards the prime features like High Speed Internet Connectivity, high configured system, PC's, Monitor, head phones, speakers and Projectors.

The practice portal through skill rack is provided for all the students to practice coding programs in python enriching their programming knowledge skillfully.

Placement Trainings:
Apart from the knowledge in the regular curriculum courses, students are expected to have sound knowledge in problem solving, analytical thinking, leadership qualities, team playing skills, etc. Holistic development of making the students as a full fledged Engineering Graduate is given Company Oriented Trainings are conducted for the final year students towards the requirements of placing them in MNCs like TCS, INFOSYS, ACCENTURE, WIPRO, ZIFO, etc. Expert trainings for 30 hours to 90 hours on aptitude, verbal, soft skills and technical are organized according to the expectations of the Industries.

- Empowering the youth by providing professional leadership
- Developing centers of Excellence in frontier areas of Engineering & Technology
- Networking with Industry, Corporate and Research Organizations

Technical Clubs:
Technical Clubs at Prathyusha Engineering College are unique of its kind and is a platform focusing on equipping the students with the necessary expertise in the domains of the students' interest. Through these technical clubs, seminars, Industry Expert Interactions, workshops and

Guided self-learning sessions are arranged to enable continuous learning in the respective technologies. Alumni and higher semester students will guide the juniors in learning and doing projects. Project Exhibitions and various activities including paper presentation, Idea Generation, Quiz, etc are conducted by the student coordinators. Students are getting molded as a whole with the technical knowledge, problem solving skills, analytical skills, presentation, coordination, team playing skills and are becoming ready towards meeting the expectations of Industries. These technical club activities are very much help during placements as the students have a proven track record for their continuous learning and skill development.

All students are encouraged to enroll in minimum 2 clubs out of which one being the Coding Club. Technical clubs on various domain including Data Science, IoT, Mobile Applications, Web application, Cyber security, Robotics Automation, Antenna Design, Signal Processing Image Processing, Wireless Sensor Networks, Auto CAD, Bike Assembly, Car Assembly, Manufacturing Process Club, Professional Lighting Design Club, Manufacturing Process, Electrical Wiring Club, ETAP Club, Architectural Club, Enviro Club Structural Club, Bioinformatics Club etc., have been established and the faculty coordinators and student coordinators are organizing various activities for a consistent learning in the respective domains. Conducting Workshops in new domain such as ICT sales force, Amazon Web services, Gaming Hacking.

Technical clubs, Fine-arts clubs, Internship programmes, Mini-Projects for every course – In-house & Industry projects, Entrepreneurs Development Cell, Student ambassador programmes, Online self-learning sessions – NPTEL, Swayam are offered for the students to enrich their knowledge.

The activities of the various clubs on the campus ensure that the students are dynamic and well groomed in social and event management skills. The technical clubs aim to develop the technical skills of the student through

> ➢ Industry Expert Interaction.
> ➢ Industrial Visits.
> ➢ Internal and External Contests.
> ➢ Workshops and seminars.

These activities provide,

> ➢ Knowledge exchange platform.
> ➢ Moulds them with industry based skills.
> ➢ Makes them globally competent.

These Clubs are also associated with IEEE (Institution of Electrical and Electronic Engineers),

Computer Society of India, ISTE and Institution of Engineers (IE), ISHRE Societies where students are members and are encouraged to organize events towards knowledge exchange by experts from Industries and Academia.

The main focus of the clubs and Centers of learning (COL) is to provide a platform where students can exchange knowledge, build awareness, generate interest and receive recognition, to promote a spirit of team work and brotherhood among all students of the institute, bridging difference in the state origin, and diversity of the cultures and foster the social aspect, to create a truly multi-cultural environment where students from diverse cultural backgrounds share each other's experiences in a most cordial manner, to inculcate leadership, entrepreneurship and innovation among students, to provide a platform for students to display their talents, drive their passions and explore new horizons and to provide opportunity to the students connect, communicate and collaborate with industry experts.

Skill Development Academy:
Students' skill development academy have been established through the MoUs executed with various Industry Partners and Educational Partners like INFOSYS CAMPUS CONNECT, Ni LabView Academy, COURSERA, ORACLE ACADEMY, ICT ACADEMY, NPTEL etc.

National level seminars, workshops and learning initiatives are conducted through these academies to prepare our students towards competing with the peers at world level. Focused trainings are conducted for pre-final year students in specific technologies to enable them to get placed in the domains of their interests. Value added courses on CLAD certification training through NI LABVIEW, INFYTQ trainings through INFOSYS Campus Connect, Advanced Tool CATIA V5 Trainings, etc. are organized. These Academies are conducting workshops in current technologies such as sales force, Amazon Web services, Gaming & Hacking. All students are encouraged to undergo the online courses provided by IITs through NPTEL on various courses of their interest. Learning initiative through COURSERA has provided the students to undergo various courses that are offered by the most renowned Institutions and Universities across the Globe through Online and earn certificates.

Internships:
Second, third and final year students of BE/B.Tech program are encouraged to undergo 1 week or 4 weeks long internship in leading organizations as a part of their curriculum. This enables them to get exposure to real time Industry practices. These internships, along with

various industrial visits keep the students informed about latest industrial trends and to enable them to learn the nitty-gritty of jobs in real-life work environment.

Students are encouraged to implement course-based projects as an outcome of their laboratory course. This method intends creative imitation leading to research and innovation. Course-based Projects are developed for the laboratory courses of every semester and are presented.

Research & Development centre:

The Research & Development centre provides a platform for faculty and students to pursue research in their interested areas of research. The centre has received research grants of more than 2 crore from various Govt. funding agencies like AICTE, DST, TNSTC, etc towards the research activities initiated in the campus.

Every year the final year students are encouraged to do in-house and/or industry project by utilizing the facilities provided by the college and also the knowledge gained by the various technical clubs. Project exhibitions are conducted at the end of every semester and Industry experts are invited to interact with the students on these project domains. The projects are improvised based on the recommendations given by the Industry experts. These projects and the team of students are encouraged to show-case their innovations at various national level forums including national level project contest, Smart India Hackathons, conferences and publications in repute journals.

Empowering the youth by providing professional leadership

Activity Based Learning & Project Based Learning

* Innovation
* Leadership
*Team Playing
* Coordinating
* Commitment
* Communication
* Peer Enablement

Professional Societies, Technical Clubs & Centers of Learning

* Activities Coordination
* Interaction with Industry Experts
* Guided learning sessions
* Peer Enablement

Empowering the youth by providing professional leadership

Students Ambassador Programme

* Leadership
* Instituion Representation
* Industry Interaction
*Peer Coordination
*Knowledge Upgradation

Entrepreneurship Development Cell &

Women Empowerment Cell

* Leadership
* Activities Coordination
* Guided learning sessions
* Peer Enablement

Empowering the youth by providing professional leadership

Activity Based Learning

Various activities including Idea Generation, Paper Presentation, Quiz, Poster Presentation, Debate, Singing, MEMEs creation, Painting and Drawing are conducted on a selected theme for

a span of two weeks time. Themes like Air Pollution, Technology for Agriculture, Women safety, etc. are choosen by student coordinators and the set of activities for the theme are selected by the students. Activity coordinators will coordinate the activities by promoting the activities through social media, peer interactions, Interaction with HODs and staff.

Responsibilities of the Coorinators:

- Finalize the theme
- Finalize the set of activities
- Fix the date and venue for each activity
- Promote through classroom interactions, peer interactions, social media, etc.
- Identify the juries for each activity and fix the venue an mode of conducting the activity.
- Prepare the report

Outcome of ABL:

- Leadership
- Team Playing
- Coordinating
- Commitment
- Communication
- Peer Enablement

Project Based Learning

Students are encouraged to do project/ mini projects during every semester to enable them to better understand the concepts learnt in their courses. Miniprojects are done by students as an extension to the lab courses. All final year students students will be doing their project in the 8th semester and they are motivated to do in-house or industry projects. In-house projects are done according to the current research trends and/or societal challenges. Industry projects are done as per the problem statements provided by the respective industries.

Outcome of PBL:

- Innovation
- Better understanding on the concepts learnt
- Hands-on experience
- Team Playing
- Commitment
- Peer Enablement

Students Ambassador Programme:

Students ambassador are nominated for various Industry related activities like INFOSYS CAMPUS CONNECT, PROFESSIONAL SOCIETIES, etc. These students will be interacting with the industry experts to conduct the activities like students training, certifications, workshops, HACKATHON, etc. These students have to communicate to the students community in the campus according to the guidelines provide by the industry experts and complete the tasks.

Outcome of **Students Ambassador** Programme

- Leadership
- Institution Representation
- Peer Coordination
- Knowledge Upgradation

Professional Societies, Technical Clubs & Centers of Learning

Student coordinators are the key players in the technical clubs, Centers of Learning and Professional society activities. These coordinators will organize the Industry Expert Interactions, workshops, self-learning sessions, peer enablement sessions, etc. They will prepare the schedule and execute the task as per the guidelines provided by the faculty coordinators.

Responsibilities of the Student Coordinators:

- Activities Coordination
- Interaction with Industry Experts
- Guided learning sessions
- Peer Enablement

<u>Developing centers of Excellence in frontier areas of Engineering & Technology</u>
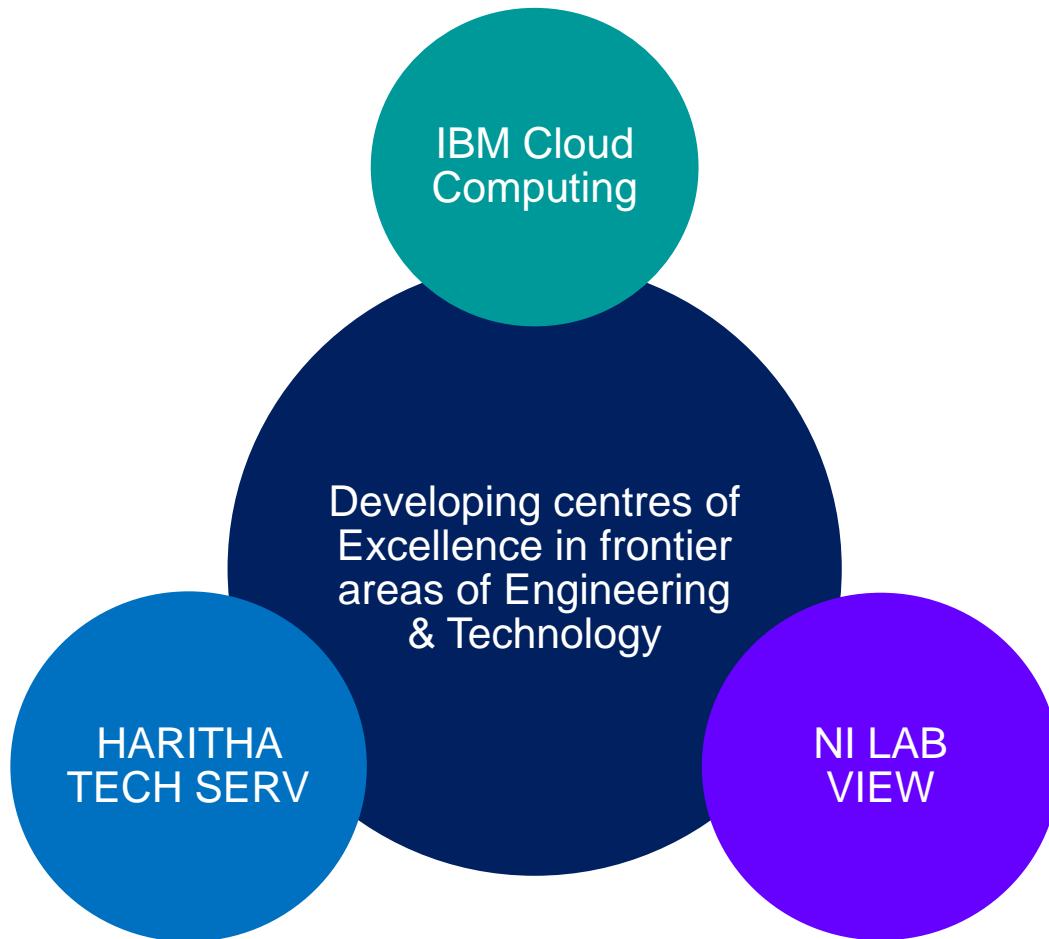

<u>Developing centers of Excellence in frontier areas of Engineering & Technology</u>

Centers of Excellence for Cloud Computing, HARITHA TECHSERV and NI LABVIEW have been established. The main aim of these COEs is to equip the students in the respective domains on par with the Industry standards.

Activities of COEs
- Provide training to the registered students through the Experts from Industries.
- National/International Level Certifications
- Internships
- Placements

Networking with Industry, Corporate and Research Organizations
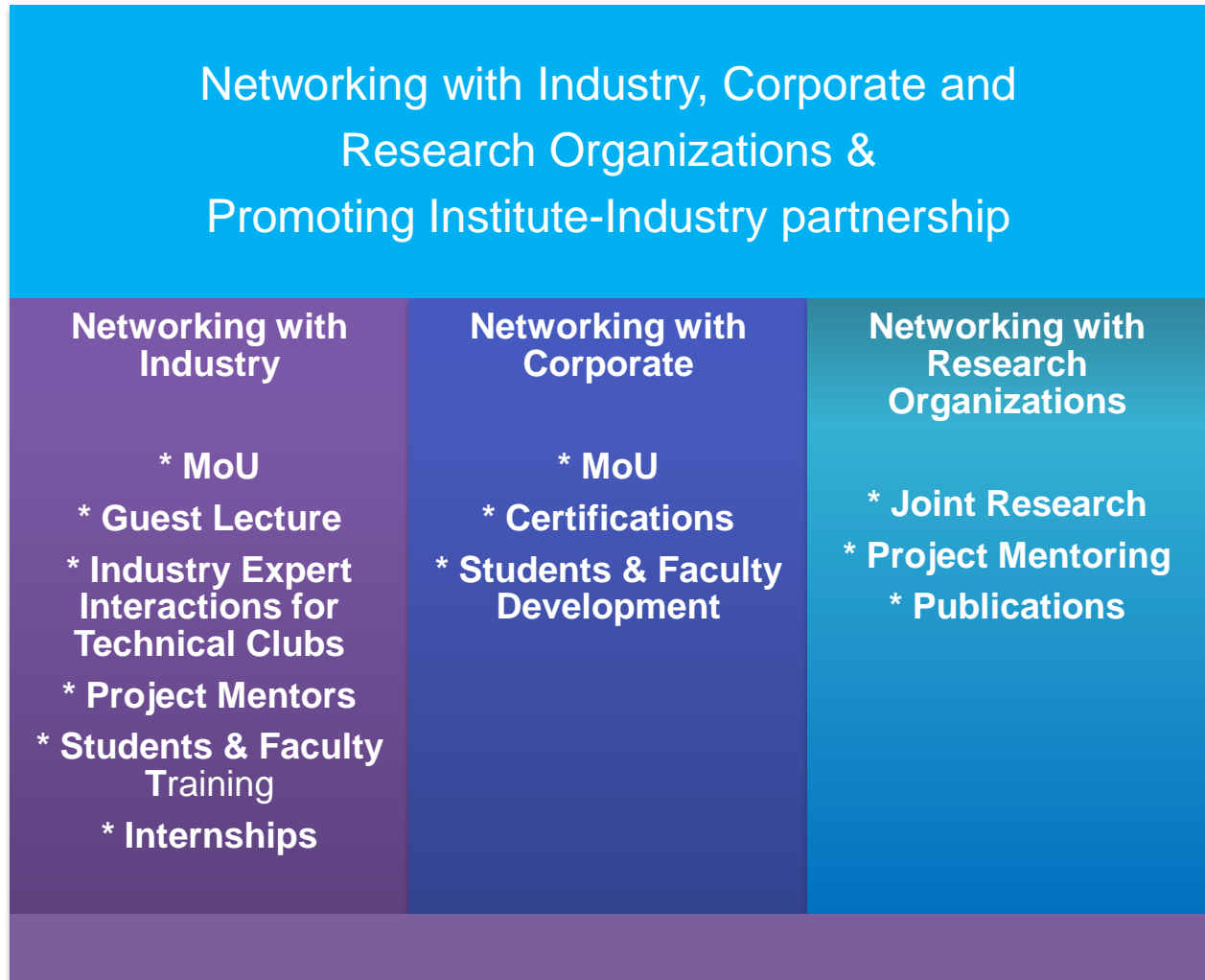
Networking with Industry, Corporate and Research Organizations &
Promoting Institute-Industry partnership

Networking with Industry	**Networking with Corporate**	**Networking with Research Organizations**
* MoU * Guest Lecture * Industry Expert Interactions for Technical Clubs * Project Mentors * Students & Faculty Training * Internships	* MoU * Certifications * Students & Faculty Development	* Joint Research * Project Mentoring * Publications

Networking with Industry, Corporate and Research Organizations

Networking with various Engineering Industries and Corporate have been established to ensure the growth and development of the Institution and Students towards meeting the requirements of the Employers.

MoUs have been signed with various Corporates like INFOSYS Ltd., MICROSOFT, TVS HARITHA, IBM, NATIONAL INSTRUMENTS, TESLA MINDS, ARNYA BIOSCIENCE Pvt. Ltd, Synkromax Biotech Pvt., Ltd., M/s Future Automation Technologies Pvt. Ltd.

Activities conducted through the Networking with Industries & Corporate
- Faculty & Students Training on the current technologies

- Guest Lectures for the curriculum courses to provide the Industrial Scenarios in the concepts taught in the courses
- Industry Expert Interactions for Technical Clubs to provide the club members with the updated knowledge on the tools and technologies in the respective domains.
- Project Mentoring to review the scope and development of the projects and to improvise the projects.
- Students internships to help them to understand the real time Industry practices

Networking with various research organization

Networking with various research organizations have been established to ensure continuous research and development of the Institution. MoUs have been signed with various research organizations like National Institute of Wind Energy, Tesla Minds, etc.

Activities conducted through the Networking with Research Organizations:
- Faculty & Students Training on the research trends.
- Guest Lectures for the curriculum courses to provide the research Scenarios in the concepts taught in the courses
- Industry Expert Interactions for Technical Clubs to provide the club members with the updated knowledge on the tools and technologies in the respective domains.
- Project Mentoring to review the scope and development of the projects and to improvise the projects.
- Joint research by involving the students and faculty as well as experts from research organizations.
- Joint publications have been initiated.