



M.S.P. Mandal's
Shri Shivaji Institute of Engineering & Management Studies,
Vasmat Road, Parbhani – 431 401 (M.S.).

Ph. (02452) 234109, Fax (02452) 221958

Email: director.ssiems@gmail.com web: www.ssiems.org.in

DTE Code: 2252

University Code: 2252

Shri. Prakash Solanke
President

Shri. Satish Chavan
Secretary

Shri. Anil Nakhate
Joint Secretary

Dr. Anand K. Pathrikar
Director

1. Introduction

Knowledge is recognized as the main feature for economic growth and development of global economy, coupled with information and communication revolution. Technical education plays a vital role by creating skillful engineers, enhancing industrial productivity and improving the quality of social life. Technology impact created novel methods for classroom teaching and learning process. Many intellectual, social and practical problems require Inter-disciplinary approaches. It is necessary to empower the teachers to stay abreast of current and future trends in both the academic and research frontiers. Curriculum orientation synergizing between academics and research, reengineers the student strengths to think out of the box and exploring the new horizons.

The Institute has a well-defined structure for strategic planning and overall Management of resources. The Institute has prepared its own set of Strategic Plans to fulfill academic development of the institute, extra-curricular activities, sports, culture and defined targets for the utilization of infrastructural facilities of the institute. These targets have been set with extensive consultation with all stakeholders, staff, faculty, alumni, management and the industry.

Strategic Development Plan is drawn in light of the institutional vision and mission. Major thrust areas and actions are identified in the Strategic Development Plans. Excellence in academics, research and training and placement will automatically lead the college becoming a Centre of Excellence, which is the ultimate goal of the Strategic Plan. In order to attain this goal, the Institute has set into motion the committed academic and administrative community and focus on catapulting the 13-year-old college into the top notch position in the State of Maharashtra and also at the national level.

2. Vision

- Our vision is to become a beacon of hope and empowerment in the backward region, transforming lives through technical education, innovation, and sustainable development.

3. Mission

- We aspire to provide unparalleled access to quality education in the technical field for socially and economically backward classes, ensuring that no deserving student is left behind due to financial constraints.




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- We are committed to fostering the educational and cultural development of the rural population, enriching communities with knowledge and opportunities for growth.
- We aim to set the standard for educational facilities by providing top-tier amenities, including state-of-the-art hostel accommodation, comprehensive physical education programs, and value-based education that nurtures character and integrity.
- Through education, we seek to catalyze social transformation, uplifting the common people and empowering them to shape their own destinies.
- We are dedicated to promoting intellectual, ethical, and cultural values among our students, while equipping them with the technical and professional skills needed to thrive in today's competitive job market, thereby contributing to economic development.
- We envision creating a wide-reaching technical education network that encourages mass participation in education, breaking down barriers and opening doors to a brighter future for all.

4. Core Values

1. Eco Friendly campus:

SSIEMS supports eco-friendly environment through facilities green campus. SSIEMS encourages innovative energy and water efficiency measures for a resource-efficient future.

2. Community development:

SSIEMS empowers the under-privileged and the socially disadvantaged sectors of the community by offering Training and Development in Employability Skills and Entrepreneurship Initiatives with the participation of the community and in collaboration with the Government and Corporate.

3. Global Vision:

SSIEMS plans and performs with a global vision. To become an Institute of great repute, in the fields of Engineering and Technology, by offering a full range of programmes of Global standard, and to transform the students in to Globally competent personalities.

4. Moral Integrity:




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SSIEMS believes that without a sense of proportion there can be neither good taste nor genuine intelligence, nor perhaps moral integrity.

5. Quality Policy

To impart instructions and training of international standard in an environment conducive to an effective teaching and learning process with a goal to continually develop the institution as a trendsetter in the academic field and a Center of Professional Excellence with emphasis on Character, Health and Education. To synthesize and analyze the potential needs of the society and the global market and to mould the rural youth to practice engineering profession with confidence, courage, competence and integrity, achieving continual improvement and universal acceptance.

Quality Objective

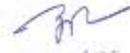
1. To provide our students technical knowledge and hands on experience by providing quality education system through Theory and Practical Classes including latest e-learning practices.
2. To impart necessary training for acquiring the soft skills and thus make them employable while in campus.
3. To empower our Faculty and Staff to update their knowledge from time to time for facilitating our students in their learning process.
4. To achieve excellent results for our students both in academics at the College / University Level and also on Campus Placement.
5. To continually improve our Quality Education System through customer satisfaction duly monitoring their feedback from time to time.

6. SWOC Analysis

Strength

- Learning oriented ambience with academic discipline and dedicated faculties
- Visionary Leadership with highly qualified and efficient faculties
- High success rate in university exams
- State-of-the-art Infrastructure




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- Advance campus facilities and equipped laboratories in all department
- Special mentoring for personal attention and to keep track of students' progress
- Open spaces, lawns and gardens in campus supplement to elevate the grandeur of the environment and provide calm, peaceful and conducive atmosphere for academic pursuits
- Festivity campus environment with wide co-curricular and extra-curricular activities

Weakness

- Less number of faculties with doctoral degree and industry experiences.
- Unable to execute innovative plans due to impediment of financial resources due to delay in government procedures for reimbursement of scholarship and tuition fees.
- Lack of Industrial Consultancy
- Inflexibility of academic structure and curriculum
- Student's intake from poor socio-economic background with low entry level scores and poor language competence

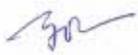
Opportunities

- Strengthening collaboration with industry in research, consultancy, training & internships.
- To develop research centers in every department and get research grants
- To achieve NBA, NAAC accreditation and Autonomous institution status
- To get recognition of UGC 12B
- To develop partnership and sign MoUs with nearby industries and research organizations to facilitate the students and the teachers
- Networking with other institutes and organizations
- To receive Government funding and Research Grants

Challenges

- Impediment in generating funds from tuition fees due to government delayed procedures.
- Dismal scenario of engineering field due to slow down in global and domestic market and low preference to private institutes.
- Retention and recruitment of faculty
- Student's inclination to IITs, NITs, IIMs and other government institutes.




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- To maintain the higher teachers cadre ratio due to due to scarcity of competent Ph.D. holders
- To provide cent-percent employment and lack of Involvement of competent industry professionals
- To achieve 100% admission in all branches

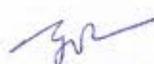
7. Strategic Goals

Strategic goals of the institute were formulated after a brain storming session with Management, Director and Faculties. After analysing the vision, mission, quality policy, core values, SWOC analysis, internal and external environment, the strategic goals were set up in all possible growth domains.

Strategic Goals of the Institute

1. Enhancing effective teaching and learning process.
2. Ensuring good governance.
3. Ensuring student and faculty development and participation.
4. Getting Accreditations from statutory bodies.
5. Continuous Internal Quality Assurance System.
6. Increasing Industrial and Alumni Interaction.
7. Encouraging Research, Development and Consultancy work.
8. Generating funds and grants from various schemes and policies of government and non-government organization.
9. Ensuring Social engagement and Community service.
10. Encouraging Skill Development.
11. Enhancing Physical infrastructure, laboratories and other facilities.
8. Strategic Planning and Deployment




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Strategic Plan

2020-2025

Strategic Plan

2020-2025



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The Strategic Plan of the institute is phased at five levels:

1. Improving the teaching/learning environment.
2. Administrative and Organizational status.
3. Quality Improvement.
4. Research & Development, Innovation.
5. Infrastructure Development.

Strategy #1: Improving the teaching/learning environment Improving the eaching/learning experience in the campus by

- Student centric learning.
- Creation of facilities for e-content generation.
- Encouraging faculty publications in innovations of teaching learning practices.

Strategy #2: Strengthening the Administrative and Organizational Strengthening the administrative and organizational position through

- ISO 9001:2015 Certified,
- NBA Accreditation.
- Accreditation from National Assessment and Accreditation Council (NAAC).
- Application for addition of new UG programs in the emerging technologies.

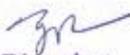
Strategy #3: Ensuring the Quality Improvement

- Ensuring the quality in the institute by
- Strengthening of Internal Quality Assurance System.
- Development of academic facilities, Evaluation of Teaching-Learning processes.
- Extensive development programs for the faculty in all emerging areas.

Strategy #4: Promoting Research & Development, Innovation

- Promoting the research in the institute by




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- Establishment of advanced Research facilities and development of centers of excellence in specified areas.
- Increasing the number of research publications, consultancy projects and patents.
- Expansion of the industry institute collaboration.

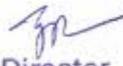
Strategy #5: Accomplish the excellence in Infrastructure Development Accomplish the excellence in Infrastructure Development through

- Upgradation of department laboratories.
- Establishment of Smart Board in each classroom
- Advanced computer labs.
- Upgradation of internet speed from 50 Mbps to 100Mbps.
- Upgradation of auditorium.

Deployment of Strategic Plan

- Under APJAKSSLV Dr. A.P.J. Abdul Kalam Space Activity, to encourage research and development in the field of Engineering and Technology is always the priority of our institute, our ten students selected in the world's biggest event of Launching 150 PICO Satellites in one Rocket conducted in last year.
- A project made by four students of SSIEMS Parbhani "Gesture Control System", is selected at National Level Competition conducted by Dr. A.P.J. Abdul Kalam International Foundation at Rameshwaram which is appreciated by ISRO chief Dr. M. Somnath.
- On 92th Birth Anniversary of Bharat Ratna Dr, APJ Abdul Kalam Transforming Tomorrow Tech Xcelerate 2023, Dr, APJ Abdul Kalam's Enduring Vision, Accelerating the convergence of Emerging Technologies National Level STEM and Robotic Competition on 06th October 2023 organized at SSIEMS, Parbhani.
- College got ISO 9001:2015 Certification on 20th January 2024.




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Marathwada Shikshan Prasarak Mandal's Shri Shivaji Institute of Engineering and Management Studies Parbhani, is renowned for its commitment to technical excellence and innovation. This document highlights key activities and achievements of the institute, including events like Techno Spirit 2019, TechXcelerate 2023, Chandrayan-3 Triumph, the PICO Satellite project, and notable student achievements.

Activities and Achievements of the Institute as below

Name of the Activity	Date of Activity	Place of Activity	Link for Details
Techno Spirit 2019	7,8 March 2019	SSIEMS Parbhani	View Document.pdf
PICO Satellite	19 February 2023	SSIEMS Parbhani	View Document.pdf
TechXcelerate 2023: Transforming Tomorrow	5,6 October 2023	SSIEMS Parbhani	View Document.pdf
Chandrayan-3 Triumph	15 October 2023	Rameshwaram, Tamilnadu	View Document.pdf

Details of Achievements of students are shows on website through link:

[View Document.pdf](#)

The successful organization of TechXcelerate 2023 exemplifies the institute's dedication to nurturing future innovators and leaders, aligning with Dr. APJ Abdul Kalam's vision of empowering youth through knowledge and innovation.

The PICO Satellite project represents a significant achievement by the students of Shri Shivaji Institute of Engineering and Management Studies. This initiative involved designing and launching a small satellite, demonstrating the technical capabilities and innovative spirit of the students.

The PICO Satellite project has inspired other School and College students to pursue careers in space technology and engineering, highlighting the institute's role in advancing technical education and research.

Techno Spirit 2019, the event was a resounding success, setting a benchmark for future technical festivals at the institute and demonstrating the collective efforts of the administration, faculty, and students.

Students from Shri Shivaji Institute of Engineering and Management Studies have consistently excelled in various technical and academic fields. The achievements of the students underscore the institute's commitment to providing a robust educational foundation and fostering an environment of excellence and innovation.

This document showcases the diverse activities and notable achievements of Shri Shivaji Institute of Engineering and Management Studies, Parbhani, reflecting its dedication to technical education and student development.




Dr. Anand Pathrikar
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Marathwada Shikshan Prasarak Mandals
Shri Shivaji Institute of Engineering & Management Studies, Parbhani

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PICO SATELLITE MAKING HANDS ON WORKSHOP

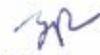
One-day workshop on Pico satellite was organized by Shri Shivaji Institute of engineering and management studies ,Parbhani as many as 150 students from Parbhani, Maharashtra participated in Dr A P J Abdul Kalam Satellite Launch Vehicle Mission 2023 workshop in association with Dr.Abdul Kalam International Foundation. This program, under which 150 Pico satellites are being launched through rockets .Pico-satellites are satellites at a mass below 1 kg, implemented by use of modern miniaturization techniques. They offer interesting potential to perform in-orbit tests of software and hardware components in a cost efficient way.

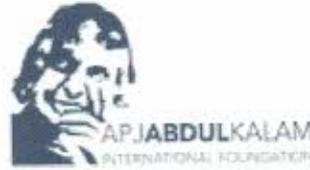
The Dr.Abdul Kalam International Foundation in association with the Space Zone India, Chennai and Martin Charitable Trust is presenting the milestone project titled Dr APJ Abdul Kalam Satellite Launch Vehicle Mission 2023. This mission will integrate 5000 students from colleges and schools across the country to learn on Science, Technology, Engineering, and Mathematics (STEM) and to enable them for designing and developing 150 number of PICO Satellites and these 150 Pico satellites will be launched through the sounding Rocket on on 19 February 2023 from the Pattipulam village of Kancheepuram district, Tamil Nadu. The program was organized by Electrical and Electronics engineering department Shri Shivaji Institute of engineering and management studies ,Parbhani on 22 January 2023.

Following Students of Shri Shivaji Institute of Engineering and Management Studies, Parbhani Participated under the guidance of Dr.A.K.Pathrikar and Prof.A.S.Wadhawe. Vishal Deshmane,Varad Dhotre,Rishikesh kutte, Priyaranjan Rokade,Hariom Sonwane, Prathamesh Jadhav,Aditya Taktonde,Ajarabeen,Vaishnavi Bhakare, Jinendra Kumbhakaran. Joint Secretary of MSP Mandal Hon. Anil Nakhate also visited on 22 January 2023 and seen the performance of all students.

Pico satellite rocket made by a total of 150 students will be launched, whose standard will be registered in World Book of Records, Asia Book of Records, India Book of Records, Assist Book of Records.




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Report

On

“TechXcelerate 2023: Transforming Tomorrow”

Two Days National Conference on

“STEM and Robotics”

Organized by:

**MSPM's Shri Shivaji Institute of Engineering and Management
Studies, Parbhani**

In association with:

**Dr. APJ Abdul Kalam International Foundation,
Rameshwaram**

Event Dates: 5th and 6th October 2023

Venue:

MSPM's

**Shri Shivaji Institute of Engineering and Management Studies,
Parbhani-431401**

Introduction

Overview of TechXcelerate 2023: Transforming Tomorrow

TechXcelerate 2023: Transforming Tomorrow stands as a pioneering endeavour at the forefront of educational innovation, designed to catalyze advancements in Science, Technology, Engineering, and Mathematics (STEM) education, alongside the transformative integration of robotics. This two-day national workshop represents a nexus of expertise, collaboration, and exploration, aimed at reshaping the future of education and technology.



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Significance:

In an era characterized by rapid technological evolution and digital disruption, the significance of TechXcelerate 2023 cannot be overstated. Here are some key aspects highlighting its importance:

- 1. Addressing Educational Challenges:** TechXcelerate 2023 comes at a crucial juncture where educational institutions grapple with the need to adapt to a rapidly changing technological landscape. By focusing on STEM education and robotics, the workshop addresses the pressing need to equip students with the skills and knowledge required to thrive in the 21st century.
- 2. Promoting Innovation and Creativity:** The workshop serves as a beacon of innovation, inspiring participants to think creatively, problem-solve, and explore new frontiers in STEM and robotics. By fostering a culture of innovation, TechXcelerate 2023 empowers individuals to develop novel solutions to complex challenges and drive progress in their respective fields.
- 3. Empowering Educators:** One of the workshop's primary objectives is to empower educators with the tools, resources, and strategies needed to enhance STEM and robotics education in their classrooms. By equipping educators with innovative teaching methods and curriculum development practices, TechXcelerate 2023 aims to inspire student engagement, motivation, and success.
- 4. Showcasing Student Talent:** Through student presentations, projects, and research showcases, TechXcelerate 2023 celebrates the creativity, ingenuity, and talent of the next generation of scientists, engineers, and innovators. By providing a platform for students to showcase their work, the workshop encourages them to pursue their passions and contribute to the advancement of STEM and robotics.



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India's First Hybrid Rocket Launch

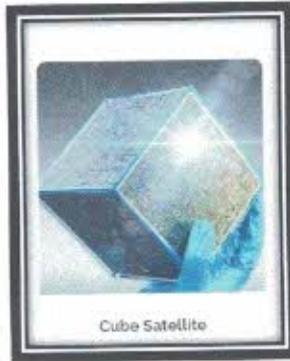
India's first hybrid sounding rocket by private players was launched from Pattipulam village, Chengalpattu. Martin Foundation, in association with Dr. APJ Abdul Kalam International Foundation and Space Zone India, launched the Dr. APJ Abdul Kalam Satellite Launch Vehicle Mission- 2023.

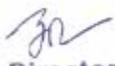
The organization's mentioned that 5,000 students were involved in the project. The selected students designed and constructed a student satellite launch vehicle (rocket) and 150 PICO satellite research experiment cubes that contained different payloads.

The reusable rocket was made by the selected top 100 students, while the rest made the satellites. The rocket can be used for research in weather, atmospheric conditions and radiations.

Shri Shivaji Institute of engineering and management studies ,Parbhani students also participated in launch vehicle mission 2023 at Pattipulam on 19 February 2023.

Following Students of Shri Shivaji Institute of Engineering and Management Studies ,Parbhani Participated in launch under the guidance of Dr.A.K.Pathrikar and Prof.A.S.Wadhawe, Vishal Deshmane,Varad Dhotre,Rishikesh kutte,Priyaranjan Rokade,Hariom Sonwane,Prathamesh Jadhav,Aditya Taktonde,Ajarabeen,Vaishnavi Bhakare,Jinendra Kumbhakaran.Above students also got World Book of Records,London certificates.




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Technoxian - World Robotics Championship 2023

Shri Shivaji Institute of Engineering and Management Studies, Parbhani students participated in TECHNOXIAN - 2023 World Robotics competition on 26th, 27th and 28th June 2023 held at Noida. Our students participated in game of Senior Roborace and Robosoccer .

Student of Electrical and electronics engineering department Hariom sonawane, Gopal Londhe and Prashant shinde participated under the guidance of Dr.A.K.Pathrikar and Prof.A.S.Wadhawe Teams from Russia and Brazil also participated in the event .



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Different Policies



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Mentoring and Counselling Policy

Counselling and Mentoring encompasses a broad set of skills, approaches and techniques that are essentially aimed at helping students with problem solving, problem management, working through or resolving past issues, or working towards developmental aims and goals for the future, which might include improving performance and meeting career and personal aspirations. The goal of counselling is to promote self-understanding and self-acceptance of a student.

Objectives

- To help student to overcome the emotional challenges
- To assist student know himself better his interest, abilities, attitudes and opportunities
- To work out a plan (behavioural therapy) for solving his difficulties to assist student in planning for career choices

Functions

- Each faculty acts as a mentor in the counseling & mentoring process.
- A mentor is responsible for guiding about 20 students of a class.
- The mentor listens to the problems of mentee, both academic and personal which hinder their learning abilities.
- In the mentoring sessions, students raise their difficulties/problems regarding academics/general facilities/hostel facilities with their respective mentors.
- If the mentor/course coordinator/HOD observes or finds a student who needs professional counseling, his case is forwarded the Professional Counseling agency through the Counseling & Mentoring Coordinator.
- Post Counseling
- Feedback and Behavioral improvements are observed from the student seeking professional counseling.
- Record of a case study report is asked from the mentor mentioning the positive changes and improvement observed for the student.




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Placements Policy

Objectives

- To help the placement office in conducting and coordinating campus placement process.

Functions

- Supervision in the various tests conducted by the recruiting industries.
- To maintain discipline during placement process.
- Communicating with students regarding placement process.

Training

- Skills and Knowledge are the driving forces of economic growth and social development for any country. In the changing world scenario with regard to industry and the job market, there is always a need of skilled manpower. Most of the students are unable to get suitable employment due to lack of employable skills. Some of the employable skills that employers seek are – communication skills, lifelong learning, self-management, team work, problem solving etc.... so it is necessary to impart training to the students at different levels.

Objectives

- To create opportunities for all students to acquire skills to get desired job / market employability.
- To develop different employable skills among students and prepare them for realistic work expectations.
- To strengthen the placement activity of the institute.
- To create awareness into the students about the soft skill training.

Functions

- To organize different training sessions at different levels for all students (SE, TE and BE) of all departments with the help of professional organization.
- To encourage students to complete the training sessions and get benefit out of it.
- To monitor the activity throughout the semester and take feedback from students



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President

Shri. Satish Chavan
Secretary

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for any corrective action if necessary.

- To identify and sign a memorandum of understanding (MoU) with various industries for the mutual benefits.
- To conduct training programs by the faculty for industry personnel.



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Process to identify slow learners

The students are tracked during their academic journey in the college and special efforts are made to bring slow learners (students with certain limitations) to come at par with the average/above average group. Students with good background and skills are guided to higher levels of achievements and encouraged towards challenging goals.

The FE learning level data is shared with the team of first year Mentors, to evaluate the student learning level as advanced learner or slow learner. The Mentors, in weekly meetings with all faculties of respective classes, carry out discussion based on analysis records available about students' levels, abilities, characteristics, skills, attitudes, examination results (internal and external) and their current day to day interactions/experiences. Based on this evaluation, feedback is given to students and special programs/activities are undertaken.

This data analysis done at entry stage is referred by Mentors of FE classes and also passed subsequently to Mentors of next classes. The Mentors of second year onwards carry forward the FE activities at individual departments. Students attendance is also being monitored and list of defaulter students are displayed on department notice board. Attendance of students is regularly being informed to the parents through SMS facility. College had made special provision of exhaustive soft skill training and exclusive counselling, to mould the slow and advanced learners to plan their careers and placements. Through this process slow learner are identified and following activities are carried out for them.

Activities for Slow learners:

- Tutorial
- Special Notes
- Question bank
- Extra lectures
- Extra Practical sessions
- Re- test for improvement
- Personal Attention in teaching




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- Remedial and Make-up classes
- Counselling – special hints and techniques
- Guidance for Seminar/Project presentation
- Assignments and Solving university question papers

Encouragement to Active Learners

In order to promote advanced teaching and learning methodologies to give motivation to learn, higher retention of knowledge through better understanding, increasing depth of knowledge and developing positive attitude to the subject taught following activities to be planned.

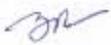
Active learning: We adopt active learning by involving students in the learning process more directly through following activities;

- Activities on technical content of syllabus like brain storming, quiz, debate, group discussions, role play, games, model making, mini project, presentations, essay, elocutions, case studies
- Active learning experiences through hands on training.
- Challenging students to take up open ended problems requiring critical/creative thinking through active participation in state and national and international level competitions.
- Use of team based learning and participative learning to do some short term projects.
- Brief demonstration, case studies etc.

a) Collaborative Learning: We implement collaborative learning by forming student teams working together to solve a problem, complete a task, or design a product. Team works are done in activities like group projects, joint problem solving, debates etc.

b) Inquiry-based Learning: We make our classrooms as open systems where students are encouraged to search and make use of resources beyond the classroom for investigation of open questions/problems, developing their critical thinking and increasing understanding levels by performing review of research papers,




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Surveys etc.

c) Cooperative Learning: Focusing on cooperative learning methodologies by distributing the tasks to small group. Students work together to maximize their own and each other's learning in IE student chapter study circle and while performing various activities using think-pair-share, round table and one minute paper technique.

d) Problem based Learning: We assign students different tasks, assignments, portfolios, activities in which students engage in complex, challenging problems and collaboratively work toward their resolution by using inter-disciplinary knowledge to solve problems.

e) Experiential learning: We are adding field based experiences, Internship, practicum, cooperative education, service learning and class based experiential learning by conducting activities like role plays, games, case studies, simulation, virtual lab, presentations and various types of group work.

f) Project based learning: The mandatory BE project is converted to a learning platform by using various tools of project management, solving real time challenges and giving the satisfaction of achieving the goal at the end of completing the project.

Activities to be carried out for Advanced learners:

- Encouragement to complete NPTEL certification courses
- Implementation of research papers
- Participation in Seminars and Conferences
- Motivational guest talks
- Paper publication and presentation
- Workshop and seminar on current trends
- Model making/building
- Motivation and Guidance for higher studies (GRE, GATE, competitive exams)
- Industry visits and Industry sponsored/research project
- In house Mini-projects (over and above the syllabus)


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- In house Mini-projects (over and above the syllabus)
- Project competition



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