Matsyodari Shikshan Sanstha's
College of Engineering and Technology, Jalna,
431203 (MS), INDIA.

INSTITUTE DEVELOPMENT PLAN

FOUNDER DIRECTOR

Late. Shri. Adv. Ankushraoji Tope Saheb (Ex. MP)

(18 Sptember 1942 - 03 April 2016)
Founder, Matsyodari Shikshan Sanstha, Jalna

"Who dreamt to provide, qualitative education in backward people of society and to achieve this dream he began on constant mission in urban and rural area.

Talented active personality, Public Oriented politician, socially committed and morally strict, devoted for structural work and accomplished omnipresent leadership"

PRESIDENT MESSAGE

Matsyodari Shikshan Sanstha (MSS) was established with objective to provide excellent and quality education to the students in the rural areas of Marathwada region.

This education society is the driving force behind MSS's College of Engineering and Technology, Jalna has set in motion a number of forward looking initiatives.

The Trust has 64 colleges, one Engineering, MBA and Polytechnic Institute, 17 Senior Colleges, Nine Junior Colleges, 22 High Schools, Five M.C.V.C. Colleges, Nine Primary Schools, One Certificate course in Professional Training with more than 1000 committed faculties and 20000 students under its umbrella.

MSS's College of Engineering and Technology is the flag ship Institution of MSS. The Institute running Bachelor of Technology (BTech) in four specializations, Master of Technology (MTech) in two specializations, Engineering diploma (Polytechnic) in four specializations and Master of Business Administration (MBA).

The Institute Development Plan would acts as guiding document for the next five years to assess the improvement in the Institution towards delivering high quality education there by earning due recognition. IDP's main focus would be on good governance, best in class teaching learning, research & innovation and highly employable students who act as brand ambassadors for the institution.

I congratulate and commend the high quality work done by the Principal, HODs, and Faculty towards developing Institute Development Plan.

Wishing all the success...!

Hon. Shri. Rajeshbhaiyya Tope
Hon. President, Matsyodari Shikshan Sanstha, Jalna
Ex. Minister, Public Health and Family Welfare, MS

SECRETARY MESSAGE

It is heartening to note that MSS's College of Engineering and Technology has embarked upon scientific way of formulating Institute development plan document. Progressive institution like MSS's CET must clearly spell out and articulate vision, mission and set the direction. MSS's CET has made its mark and is the most preferred institution in the Maharashtra state. This is right time that the institute decides its direction of growth in the next decade. I am confident that the distinguished faculty members under the leadership of Principal and HoDs brought out the best possible detailed vision, mission, high level goals, strategies and its implementation plan. Any good development plan will be successful, when fully implemented and its outcomes are evaluated. I am sure that this leadership will implement the development plan in its total spirit.

I take this opportunity to congratulate all the leadership team, HODs and Faculty who relentlessly worked towards bringing out this Institute development plan document as a master piece reference.

With Best Wishes !

Mrs. Manishatai R. Tope
Hon. Secretary, MSS, Jalna

ADMINISTRATIVE OFFICER MESSAGE

MSS's CET is most admired institution for pursuing technical education. The institution aims to provide support to faculty and students to attain the knowledge as well as the skills that they aspire for. The Institution also aims at a good governance framework towards improving quality of technical education. MSS's CET enhances existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking. MSS's CET also aims at aligning with rapid economic and technological developments in new areas both at national and international levels.

MSS's CET emphasises on enhancement of Postgraduate education and Research apart from Outcome Based Education (OBE) for undergraduate programs. The mandate is also good governance at all levels focusing on the improvement of the quality of learning, teaching and research outcomes. Good governance focuses on effective leadership, planning, ethics, responsibilities and accountabilities, both within and outside institution. Towards achieving Good Governance, an attempt has been made with the involvement of management, all heads of department and senior faculty members to prepare this Institute Development Plan.

I am sure IDP report will definitely give us direction & confidence in accomplishing vision and mission of our Institution.

Looking at a future with excellence!

Dr. B.R. Gaikwad
Hon. Administrative Officer, MSS, Jalna

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ASST. ADMINISTRATIVE OFFICER MESSAGE

It gives me immense pleasure to present the Institute Development Plan (IDP) of MSS College of Engineering and Technology, Jalna, a roadmap that envisions our institution's growth, excellence, and impact on society. Our commitment is to provide quality education, foster research and innovation, and build strong industry collaborations while ensuring holistic development for our students.

The IDP is a reflection of our collective vision—to transform our institution into a center of academic excellence, technological advancement, and skill development. Through curriculum enhancement, faculty upskilling, infrastructure development, and student-centered initiatives, we aim to prepare our graduates for the challenges of the modern world.

We believe that a well-structured plan, coupled with systematic implementation and monitoring, will lead to remarkable achievements. With dedication, teamwork, and continuous improvement, we are confident that MSS College of Engineering and Technology, Jalna will emerge as a leading institution in technical education, research, and innovation.

I extend my gratitude to all stakeholders—students, faculty, alumni, industry partners, and the management—for their continuous support and commitment toward our shared mission. Let us work together to achieve excellence, sustainability, and global recognition.

"Together, we build a future of innovation, knowledge, and success!"

Hon. Rahulji Bhalekar
Asst. Administrative Officer, MSS, Jalna

PRINCIPAL'S MESSAGE

MSS's CET is the most admired institution both in the state Maharashtra and also at National level. The institution has aimed at achieving centre of excellence status at par in line with IITs at national level. MSS's CET plans to secure ranking at Asia-Pacific level by upcoming five years. It is heartening to note that all the hard work by HODs, Faculty and Staff has resulted in having well articulated and clearly defined Institute development plan document for MSS's CET .

MSS's CET has 1000+ students in undergraduate and postgraduate courses. The theme for the strategic development plan covers all critical aspects of the institution. The IDP implementation in its full spirit may lead this institution towards the most preferred institution in Asia Pacific and also among all its stake holders. The strategic development plan formulates clear vision, mission, quality policy, core values, institutional strategic goals, strategies, sub strategies and goals. The key performance indicator of SDP is in its successful implementation and evaluation aspects. I have utmost confidence in the institution's human resources and management capability in true implementation.

I am placing on the record, committed management support, alumni performance and feedback from to time, HODs, Faculty and Staff's active participation in making this SDP possible. My heartfelt appreciations to all the members who are directly and indirectly involved in making an implementable document.

Wishing good luck!

Dr. S.K. Biradar
Principal, MSSCET, Jalna

ACKNOWLEDGEMENT

We extend our sincere gratitude to all the individuals and organizations who have contributed to the formulation and development of the **Institute Development Plan (IDP)** for **MSS College of Engineering and Technology, Jalna**. This strategic document reflects our collective vision for institutional excellence, student success, and technological advancement.

We express our heartfelt appreciation to **our management, faculty members, administrative staff, students, industry partners, alumni, and well-wishers** for their valuable insights, suggestions, and unwavering support throughout the development of this plan. Their contributions have been instrumental in shaping a roadmap that will drive the institution toward academic excellence, research innovation, and holistic development.

A special note of gratitude goes to the **Governing Body, Board of Directors, and Principal** for their continuous encouragement and visionary leadership. Their guidance has helped us align our institutional goals with global educational standards and industry expectations.

We also acknowledge the efforts of the **Strategic Planning and Implementation Committees**, who have worked tirelessly in drafting, reviewing, and refining this document to ensure a well-structured and actionable plan. Their dedication has laid a strong foundation for the successful execution of the IDP.

Furthermore, we express our thanks to **various accreditation bodies, industry experts, and academic mentors** who provided valuable recommendations, ensuring that our initiatives meet national and international benchmarks of quality and excellence.

Lastly, we are deeply grateful to our **students**—the heart of our institution—for their enthusiasm, participation, and commitment to learning and growth. This plan is designed to empower them with the knowledge, skills, and opportunities they need to excel in their careers and contribute meaningfully to society.

With collaborative efforts, dedication, and a shared vision, we are confident that the Institute Development Plan will guide MSS College of Engineering and Technology, Jalna, toward a future of innovation, sustainability, and global recognition.

With sincere appreciation and gratitude,

Dr. S.K. Biradar
Principal
PRINCIPAL
MSS's College of
Engg. & Tech. Jalna.

ABBREVIATIONS

AI	:	Artificial Intelligence
AICTE	:	All India Council for Technical Education
AIM	:	Atal Innovation Mission
BoG	:	Board of Governors
DST	:	Department of Science and Technology
DTE	:	Directorate of Technical Education
ERP	:	Enterprise resource planning
FDP	:	Faculty Development Programs
IDP	:	Institute Development Plan
IoT	:	Internet of Things
KPIs	:	Key Performance Indicators
LMS	:	Learning Management System
Mbps	:	Megabits Per Second
MOOC	:	Massive Open Online Course
MOU	:	Memorandum of Understanding
MSSCET	:	Matsyodari Shikshan Sanstha's College of Engineering and Technology, Jalna
NAAC	:	National Assessment and Accreditation Council
NBA	:	National Board of Accreditation
NEP	:	National Education Policy
NGOs	:	Non-Governmental Organization
NIRF	:	National Institutional Ranking Framework
NPTEL	:	National Programme on Technology Enhanced Learning
OBE	:	Outcome Based Education
OBE	:	Outcome-Based Education
OFC	:	Optical Fiber Cable
Ph.D.	:	Doctor of Philosophy
QS	:	Quacquarelli Symonds
R&D	:	Research & Development
SCI	:	Science Citation Index
SICs	:	Strategic Implementation Committees
SWAYAM	:	Study Webs of Active-Learning for Young Aspiring Minds
UGC	:	University Grant Commission
Wi-Fi	:	Wireless Fidelity

PREFACE

Education is the foundation of progress, and at **MSS College of Engineering and Technology, Jalna**, we are committed to fostering a learning environment that nurtures excellence, innovation, and holistic development. The **Institute Development Plan (IDP)** is a strategic framework that outlines our institution's vision, mission, and roadmap for growth in alignment with national and global educational standards.

This document serves as a **guiding blueprint** for the systematic enhancement of academic programs, research and development, industry collaborations, faculty development, student success, and infrastructure expansion. Our goal is to transform the institution into a **center of academic excellence** that not only imparts technical knowledge but also prepares students to meet the evolving challenges of the modern world.

The **IDP focuses on key areas** such as curriculum enhancement, skill-based learning, entrepreneurship promotion, digital transformation, and sustainable campus development. Through **strong industry-academia partnerships, innovative teaching methodologies, and research-driven initiatives,** we aim to provide a comprehensive educational experience that empowers students to thrive in their careers and contribute meaningfully to society.

This plan has been developed with the **collective efforts of our management, faculty, students, alumni, and industry experts**. Their invaluable insights and recommendations have helped shape an ambitious yet achievable roadmap for institutional growth. The IDP is a dynamic document, adaptable to future challenges and opportunities, ensuring that MSS College of Engineering and Technology remains a **progressive and forward-thinking institution.**

We invite all stakeholders to actively participate in the implementation of this plan and work together towards a **shared vision of excellence, innovation, and global competitiveness**. With dedication and collaboration, we are confident that this plan will lead our institution toward greater heights of success.

"**Empowering Knowledge, Inspiring Innovation, and Shaping the Future.**"

VISION OF THE INSTITUTION

"To be a Premier Institute in the Region which develops Competent Engineers and Managers, capable of Leading Team with Social, Ethical and Environmental values"

MISSION:

- Imparting Quality Education through best Academic Practices
- Enabling the students to develop Practical Skills through Laboratory Experimentation and Technical, Managerial, Research and Innovative Projects
- Developing Managerial and Leadership Competence amongst the students through Industry Institute Interaction and Co-Curricular activities
- Imparting Social, Ethical and Environmental Awareness among the students through Extra Curricular activities

QUALITY POLICY:

"We at MSSCET, Jalna are committed to develop Engineers & Managers through Best Teaching Learning practices with team spirit. Our students and Teachers are enabled to Excel in the Technical & Industrial field with Values of Life and participate in Nation building. We also commit for continuous improvement in Skills, System, Infrastructure and Services to satisfy all the Stakeholders"

CORE VALUES:

In our Engineering institute Students seeking admission from rural area and trust of their parents are the primary reasons we exist as an Engineering Institution and our core values are:

- **Environmental stewardship:** Committed in practicing green technologies for sustainable development of the Nation and use of Non-renewable energy for pollution free environment.
- **Responsibility:** Everybody in the Institute is expected to discharge his/her duties with due responsibility without any agitation.

- **Integrity:** All the activities should be conducted in an ethical and discipline manner. Teaching shall be carried out in an environment of academic freedom and honesty.

- **Respect of Individual:** While carrying out the interactions at all levels, the dignity and respect of an individual is observed and maintain without fail.

- **Faculty Empowerment:** Institute promotes and encourages faculty in their individual academic development for the betterment of students and Institute and themselves.

- **Transparency:** The working style and general records of maximum aspects of the functioning are maintained transparent.

- **Service to Nation:** Institute is committed to developing the skilled manpower to serve the **Nation** by providing the services to boost the knowledge and the moral of each individual.

- **Accountability:** The roles and responsibilities are assigned and people are held accountable for their deeds. We feel our liability towards the society and our actions add values to the Institute for better prospect.

- **Discipline:** Treat Students with respect & get engaged and involved in co-curriculum & extra co-curriculum activities with work on their social-emotional skills. Be fair and consistent with full of positive attitude.

PROFILE OF THE INSTITUTION

This is the only engineering college in district which has been started to help the economically weak student to make career in engineering fields at affordable fees. The institute has been started with social vision to develop the rural masses, whiich were remaining ignored from quality education in technical field. The management and faculty commit themselves to their pursuit of excellence in technical education through dissemination of knowledge, development and technical skills.

The college has excellent infrastructure situated, near to historical city Chhatrapati Sambhajinagar. The college buses and city buses are available from Jalna city to college and travel time is hardly 15 minutes. The Institute has well planned and ventilated infrastructure for each department. All departments have well equipped laboratories with facilities for experiments. All departments have Internet facility with OFC backbone and 100 Mbps leased line Internet link. Seminars, Contests, Short-term courses and various educational programmes are conducted regularly for students and faculty. It offers a thorough living and learning experience with its spacious class rooms, air conditioned computer labs, Soft skill Labs. Many reputed companies visit the institute for campus recruitment.

Bachelor Programs in Engineering (B.Tech.)

1. Civil Engineering
2. Computer Science and Engineering
3. Electrical Engineering
4. Mechanical Engineering

Post-Graduate Programs (M.Tech./ MBA)

1. Electrical Power Systems
2. Mechanical Engineering
3. Master of Business Administration

Diploma in Engineering (Polytechnic)

1. Civil Engineering
2. Computer Science and Engineering
3. Electrical Engineering
4. Mechanical Engineering

STAKE HOLDERS' EXPECTATIONS

Stakeholders of **MSS College of Engineering and Technology, Jalna** will have diverse expectations from the **Institute Development Plan (IDP)**, focusing on academic excellence, infrastructure development, industry collaboration, and overall institutional growth. Below are the key expectations of different stakeholders:

1. Students

- High-quality education with updated curricula aligned with industry trends.
- Well-equipped laboratories, libraries, and digital learning resources.
- Strong placement assistance and internship opportunities.
- Skill development programs, certifications, and entrepreneurship support.
- Exposure to research, innovation, and projects.
- Supportive campus environment with extracurricular and co-curricular activities.

2. Parents

- Quality education with affordable fees.
- Safe and secure campus environment.
- Strong industry collaborations for better job prospects.
- Transparent communication regarding student progress.
- Emphasis on personality development and ethical values.

3. Faculty & Staff

- Opportunities for professional growth, research, and higher studies.
- Well-equipped classrooms, labs, and research facilities.
- Competitive salaries and incentives.
- Faculty development programs, workshops, and seminars.
- A conducive working environment with academic freedom.

4. Industry & Employers

- Industry-ready graduates with relevant technical and soft skills.
- Collaboration in research, internships, and live projects.
- Training and development programs tailored to industry needs.
- Engagement in curriculum development and guest lectures.
- Strong alumni network and industry-institute partnerships.

5. Alumni

- Strong alumni engagement and networking opportunities.
- Recognition for successful alumni and their contributions.
- Opportunities to mentor and guide current students.
- Participation in college events, seminars, and training programs.
- Access to lifelong learning and skill enhancement programs.

6. Government & Regulatory Bodies (AICTE, UGC, DTE, NAAC, NBA)

- Compliance with quality education standards and regulations.
- Focus on research, innovation, and societal impact.
- Adoption of new education policies and digital initiatives.
- Accreditation, rankings, and continuous quality improvements.
- Contribution to national skill development and employment initiatives.

7. Society & Community

- Contribution to regional development through education and research.
- Initiatives for social responsibility, environmental sustainability, and skill development.
- Collaboration with local industries and businesses.
- Encouragement of entrepreneurship and start-up culture.

To meet stakeholders' expectations, **MSS College of Engineering and Technology, Jalna** should focus on **academic excellence, skill-based learning, strong industry partnerships, faculty development, infrastructure improvement, and holistic student development** in its **Institute Development Plan (IDP).**

ENVIRONMENTAL SCANNING AND ANALYSIS

Environmental scanning is a crucial step in the **Institute Development Plan (IDP)** as it helps assess internal and external factors affecting the growth and sustainability of **MSS College of Engineering and Technology, Jalna**. This analysis involves evaluating opportunities, challenges, and trends in education, industry, technology, and socio-economic conditions.

1. Internal Environment Analysis

Examining the strengths and weaknesses within the institution to understand areas of improvement.

A. Strengths (Institutional Advantages)

✔ **Reputation & Accreditation** – Recognized engineering institution with affiliations and approvals from AICTE, DTE, and other regulatory bodies.

✔ **Infrastructure** – Well-equipped laboratories, classrooms, library, and digital learning resources.

✔ **Experienced Faculty** – Qualified and dedicated faculty members with research expertise.

✔ **Placement and Industry Links** – Existing collaborations with industries for internships, projects, and job placements.

✔ **Student-Centric Approach** – Holistic development through technical, cultural, and extracurricular activities.

✔ **Entrepreneurship & Innovation** – Support for start-ups, research, and project-based learning.

B. Weaknesses (Institutional Challenges)

✘ **Limited Research & Development** – Need for enhanced research funding, publications, and patents.

✘ **Skill Gap** – Bridging the gap between curriculum and industry requirements.

✘ **Faculty Development** – Need for continuous faculty training on emerging

technologies.

✗ **Alumni Engagement** – Strengthening alumni contributions and networking.

✗ **Digital & Smart Campus** – Need for better integration of technology in learning.

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2. External Environment Analysis

Evaluating factors outside the institution that impact its growth and development.

A. Opportunities (Growth Potential)

✔ **Industry 4.0 & Emerging Technologies** – Adoption of AI, IoT, Data Science, Automation, and Cybersecurity.

✔ **Government Initiatives** – Support from schemes like National Education Policy (NEP 2020), Atal Innovation Mission (AIM), and Startup India.

✔ **Demand for Skilled Engineers** – Increasing industry demand for technically proficient engineers.

✔ **Collaboration with Industries & Research Institutes** – MoUs with companies for internships, skill training, and joint research.

✔ **Online & Blended Learning** – Implementing e-learning, MOOCs, and digital certifications.

B. Threats (External Challenges)

✗ **Competition from Other Institutions** – Presence of well-established engineering colleges in Maharashtra and India.

✗ **Changing Industry Demands** – Need for constant curriculum updates to match industry trends.

✗ **Economic & Technological Changes** – Rapid advancements requiring upskilling of students and faculty.

X **Student Admission Trends** – Decreasing interest in traditional engineering streams due to emerging career options.

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3. SWOT Analysis Summary

Factors	Positive	Negative
Internal	Strengths: Reputation, Infrastructure, Faculty, Placements, Innovation, Student Development	Weaknesses: Limited Research, Industry-Skill Gap, Faculty Training, Alumni Engagement, Digitalization
External	Opportunities: Industry 4.0, Government Initiatives, Skilled Engineers Demand, Collaborations, Digital Learning	Threats: Competition, Changing Industry Trends, Economic Uncertainty, Admission Challenges

4. Strategic Implications for IDP

Based on environmental scanning, MSS College of Engineering and Technology should focus on:

✅ **Enhancing Research & Development** – Strengthen funding, patents, and publications.

✅ **Industry-Integrated Learning** – Introduce hands-on training, live projects, and industry-driven curricula.

✅ **Skill Development & Employability** – Certification courses, soft skills training, and entrepreneurship programs.

✅ **Technology-Driven Education** – Smart classrooms, e-learning, AI-based teaching tools.

✅ **Strengthening Alumni & Industry Networks** – Increase alumni participation in mentoring, funding, and job placements.

✅ **Sustainability & Community Initiatives** – Green campus initiatives, social responsibility programs.

By leveraging **strengths and opportunities** while addressing **weaknesses and threats**, MSS College of Engineering and Technology can design a strong **Institute Development Plan (IDP)** ensuring sustainable growth, academic excellence, and industry relevance.

STRATEGIC GOALS

The **Institute Development Plan (IDP)** for **MSS College of Engineering and Technology, Jalna** should outline clear **strategic goals** to enhance academic excellence, infrastructure, industry collaboration, and student development. Below are the key strategic goals:

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1. Academic Excellence & Curriculum Enhancement

☐ **Goal:** Provide high-quality education aligned with industry needs and global standards.

✅ **Action Plan:**

- Revise the curriculum to include emerging technologies like **AI, Data Science, IoT, Cybersecurity, and Robotics**.
- Implement **outcome-based education (OBE)** as per **NBA/NAAC** guidelines.
- Strengthen **project-based, experiential, and interdisciplinary learning** approaches.
- Introduce **MOOCs, online certification courses, and blended learning** modules.
- Promote **research, innovation, and patent filing** by faculty and students.

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2. Industry Collaboration & Placement Enhancement

☐ **Goal:** Strengthen industry ties to improve internships, placements, and skill development.

✅ **Action Plan:**

- Establish **Industry Advisory Boards** for curriculum updates and training programs.

- Sign **MoUs with leading industries, startups, and research organizations**.
- Develop **Industry-Sponsored Labs** for hands-on training.
- Offer **Internship and Apprenticeship Programs** in collaboration with industries.
- Organize **placement drives, hackathons, and technical workshops** with corporate partners.
- Enhance **soft skills, communication, and professional ethics** training.

3. Research, Innovation & Entrepreneurship Development

☐ **Goal:** Foster a research-oriented culture and encourage entrepreneurial mindset.

✅ **Action Plan:**

- Establish a **Research & Development (R&D) Center** with seed funding for projects.
- Encourage **faculty and students to publish research papers and file patents**.
- Strengthen **Startup & Innovation Cell** under **AICTE's Startup Policy**.
- Collaborate with government and private funding agencies for **research grants**.
- Organize **innovation challenges, startup boot camps, and ideathons**.

4. Faculty & Staff Development

☐ **Goal:** Empower faculty with continuous learning and skill enhancement.

✅ **Action Plan:**

- Conduct **Faculty Development Programs (FDPs), workshops, and training sessions**.
- Encourage faculty to pursue **Ph.D., postdoctoral research, and certifications**.
- Implement a **performance-based appraisal system** with incentives for excellence.
- Promote **collaborative research and industry consultancy projects**.

- Encourage **faculty exchange programs** with premier institutions.

5. Infrastructure & Smart Campus Development

☐ **Goal:** Upgrade infrastructure for a modern and sustainable learning environment.

✅ **Action Plan:**

- Develop **smart classrooms** with digital learning tools and interactive content.
- Upgrade **laboratories with advanced equipment** and software.
- Implement **green campus initiatives** – solar power, waste management, water conservation.
- Expand **hostel, sports, and recreational facilities** for holistic development.
- Strengthen **Wi-Fi connectivity and digital library resources**.

6. Student Development & Holistic Growth

☐ **Goal:** Ensure all-round development of students through academics, co-curricular, and extracurricular activities.

✅ **Action Plan:**

- Encourage participation in **technical clubs, robotics clubs, and student societies**.
- Organize **seminars, guest lectures, and motivational talks** by industry leaders.
- Implement **mentorship programs** for career guidance and personal development.
- Promote **sports, cultural activities, and social responsibility initiatives**.
- Establish **mental health and counseling services** for student well-being.

7. Accreditation, Ranking & Institutional Branding

☐ **Goal:** Achieve national and international recognition for academic excellence.

✓ **Action Plan:**

- Obtain and maintain **NAAC, NBA, and NIRF rankings**.
- Enhance **participation in QS and Times Higher Education rankings**.
- Develop a strong **institutional brand image** through outreach programs.
- Strengthen **alumni network** to enhance reputation and fundraising.
- Conduct **national and international conferences, symposiums, and workshops**.

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8. Social Responsibility & Community Engagement

☐ **Goal:** Contribute to societal development and community welfare.

✓ **Action Plan:**

- Implement **outreach programs in rural areas** for skill development.
- Conduct **awareness programs on sustainability, health, and education**.
- Encourage **faculty and student participation in social service and volunteering**.
- Promote **environmental initiatives like tree plantation and clean energy projects**.
- Engage with **NGOs and government bodies for community development**.

By implementing these **strategic goals, MSS College of Engineering and Technology, Jalna** can transform into a **center of academic excellence, innovation, and industry collaboration**, ensuring a bright future for students and strengthening its impact on society.

STRATEGY IMPLEMENTATION AND MONITORING

For successful execution of the **Institute Development Plan (IDP), MSS College of Engineering and Technology, Jalna** must establish a **structured implementation and monitoring framework**. This ensures that strategic goals are achieved effectively, progress is tracked, and corrective actions are taken in a timely manner.

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1. Strategy Implementation Framework

A. Establishment of Implementation Committees

- Form **Strategic Implementation Committees (SICs)** for different areas such as **Academics, Research, Industry Collaboration, Infrastructure, Student Development, and Accreditation**.
- Assign **faculty coordinators, student representatives, and administrative staff** to each committee.
- Conduct **regular meetings** to assess progress and address challenges.

B. Action Plan for Each Strategic Goal

Each strategic goal should have a **detailed action plan** with timelines, responsibilities, and measurable outcomes.

Example: Academic Excellence & Curriculum Enhancement

✔ **Task:** Revise curriculum to align with industry trends.

☐ **Responsible:** Academic Council & Department Heads.

☐ **Timeline:** 6 months.

☐ **Outcome:** New curriculum implemented with industry certification courses.

Example: Research, Innovation & Entrepreneurship Development

✅ **Task:** Establish R&D and Startup Incubation Center.

☐ **Responsible:** Research Committee & External Industry Experts.

☐ **Timeline:** 1 year.

☐ **Outcome:** At least **5 funded projects and 2 startup ventures** annually.

Each goal should have **well-defined Key Performance Indicators (KPIs)** for assessment.

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2. Monitoring & Evaluation Framework

A. Performance Indicators & Key Metrics

To track the progress of IDP implementation, the following KPIs will be used:

Strategic Goal	Key Performance Indicators (KPIs)	Evaluation Frequency
Academic Excellence	No. of revised courses, student pass percentage, student satisfaction index	Semester-wise
Industry Collaboration	No. of MoUs, internship opportunities, placement percentage	Annual
Research & Innovation	Research publications, patents filed, funded projects secured	Quarterly
Faculty Development	No. of FDPs attended, research grants received, faculty qualifications	Annual
Student Development	Participation in competitions, startup incubations, extracurricular activities	Semester-wise
Infrastructure & Digitalization	No. of smart classrooms, lab upgrades, campus digitalization initiatives	Annual
Accreditation & Ranking	NAAC/NBA scores, NIRF ranking, participation in global rankings	Annual
Community Engagement	Social responsibility projects, outreach programs, sustainability initiatives	Annual

B. Monitoring & Review Mechanism

- **Quarterly Progress Reports**: Each SIC will submit quarterly reports with **achievements, challenges, and recommendations**.
- **Mid-Year Review**: Half-yearly review meetings will be conducted to assess implementation and make mid-course corrections.
- **Annual Evaluation & Impact Analysis**: An **Annual Report** will summarize **goal achievements, impact assessment, and future improvements**.

C. Corrective Action & Continuous Improvement

- If **progress is below expectations, action plans will be adjusted**, additional resources will be allocated, and intervention strategies will be applied.
- **Stakeholder feedback mechanisms** (students, faculty, industry experts) will be utilized for continuous improvement.

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3. Governance & Leadership in Strategy Execution

A. Leadership & Decision-Making Body

- **Board of Governors (BoG)**: Overall supervision and policy decisions.
- **Strategic Implementation Committees (SICs)**: Oversee execution and monitoring of specific areas.
- **Department Heads & Faculty Coordinators**: Ensure smooth execution at departmental levels.

B. Stakeholder Engagement

- **Regular stakeholder meetings** to gather feedback and ensure alignment with student, faculty, industry, and community expectations.
- **Collaboration with external advisory boards** consisting of **industry experts, alumni, and government bodies** for strategic guidance.

4. Technology Integration in Implementation & Monitoring

- **ERP System & Data Dashboards**: Implement digital tools for **real-time tracking** of progress in academics, research, placements, and infrastructure.
- **AI & Analytics-Based Monitoring**: Predictive analytics to identify gaps and improve decision-making.
- **LMS & Online Feedback Systems**: To collect inputs from students, faculty, and industry experts.

The **successful implementation and monitoring** of the **Institute Development Plan (IDP)** at **MSS College of Engineering and Technology, Jalna** requires:

✔ **Well-defined goals with clear responsibilities**

✔ **Structured monitoring & evaluation mechanisms**

✔ **Regular progress reviews & corrective actions**

✔ **Effective leadership & stakeholder engagement**

✔ **Technology-driven tracking & decision-making**

This approach ensures that **strategic objectives are met efficiently**, fostering a **culture of excellence, innovation, and industry alignment**.

MEASURABLE DURING IMPLEMENTATION

To ensure **effective implementation** of the **Institute Development Plan (IDP)**, clear **measurable parameters (KPIs - Key Performance Indicators)** should be established. These will help track progress, identify challenges, and take corrective actions for continuous improvement.

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1. Academic Excellence & Curriculum Enhancement

☐ **Goal:** Improve the quality of education and align the curriculum with industry trends.

Measurable Outcomes:

✓ **Curriculum Revisions:** No. of updated courses incorporating emerging technologies.

✓ **Industry Certification Integration:** No. of industry-based certification courses added (e.g., AI, Data Science, IoT).

✓ **Outcome-Based Education (OBE) Implementation:** NAAC/NBA assessment scores.

✓ **Student Performance Metrics:** Pass percentage, academic awards, and project evaluations.

✓ **Adoption of Online Learning:** No. of students enrolled in MOOC/NPTEL/SWAYAM courses.

☐ **Monitoring Frequency:** Semester-wise.

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2. Industry Collaboration & Placement Enhancement

☐ **Goal:** Strengthen industry connections to improve placements and internships.

Measurable Outcomes:

✅ **Industry MoUs Signed:** No. of new collaborations with companies.

✅ **Internships & Live Projects:** No. of students engaged in internships/industry projects.

✅ **Placement Rate:** Percentage of students placed in core and IT industries.

✅ **Average Salary Package:** Increase in placement package over previous years.

✅ **Industry Expert Lectures & Workshops:** No. of sessions conducted.

☐ **Monitoring Frequency:** Annual & Placement Season.

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3. Research, Innovation & Entrepreneurship Development

☐ **Goal:** Foster a research-driven and entrepreneurial mindset among students and faculty.

Measurable Outcomes:

✅ **Research Publications:** No. of papers published in Scopus/SCI journals.

✅ **Patents Filed & Granted:** No. of intellectual property fillings and approvals.

✅ **Funded Research Projects:** No. of grants secured from AICTE, DST, UGC, or industry.

✅ **Startup Incubation:** No. of student startups supported.

✅ **Hackathons & Ideathons:** No. of student participations in innovation events.

☐ **Monitoring Frequency:** Quarterly.

4. Faculty Development & Training

☐ **Goal**: Enhance faculty expertise through training and certifications.

Measurable Outcomes:

✔ **Faculty Development Programs (FDPs) Attended**: No. of FDPs, workshops, and certifications completed.

✔ **Ph.D. & Higher Studies**: No. of faculty pursuing/having doctoral degrees.

✔ **External Collaborations**: No. of faculty-industry joint projects and research.

✔ **Consultancy Work**: Revenue generated from faculty consultancy services.

☐ **Monitoring Frequency**: Annual.

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5. Infrastructure & Smart Campus Development

☐ **Goal**: Improve infrastructure, digital learning tools, and campus facilities.

Measurable Outcomes:

✔ **Smart Classrooms Implemented**: No. of classrooms upgraded with digital tools.

✔ **Lab Upgrades & New Equipment**: No. of upgraded and newly installed labs.

✔ **Wi-Fi & Digital Infrastructure**: Internet speed and accessibility improvements.

✔ **Sustainability Measures**: No. of green initiatives (solar panels, waste management).

✔ **Hostel & Campus Amenities**: Improvements in student satisfaction scores.

☐ **Monitoring Frequency**: Annual.

6. Student Development & Holistic Growth

⊓ **Goal:** Promote all-round student development through extracurricular and co-curricular activities.

Measurable Outcomes:

✅ **Technical Clubs & Student Organizations:** No. of active clubs and student participation.

✅ **Competitions & Events:** No. of students participating in national/international competitions.

✅ **Sports & Cultural Activities:** Participation and achievements in inter-college/university events.

✅ **Counseling & Well-being Support:** No. of students availing career and mental health counseling.

☐ **Monitoring Frequency:** Semester-wise.

7. Accreditation, Ranking & Institutional Branding

☐ **Goal:** Achieve national and international recognition for academic excellence.

Measurable Outcomes:

✅ **NAAC & NBA Accreditation Scores:** Improvement in institutional grading.

✅ **NIRF Ranking Performance:** Positioning in national rankings.

✅ **Global Recognition:** Participation in QS, Times Higher Education rankings.

✅ **Alumni Engagement:** No. of alumni involved in mentoring, funding, and events.

☐ **Monitoring Frequency:** Annual.

8. Social Responsibility & Community Engagement

☐ **Goal:** Strengthen the institution's role in community development and social service.

Measurable Outcomes:

✔ **Rural Development Programs:** No. of outreach programs conducted.

✔ **Sustainability Projects:** No. of eco-friendly initiatives implemented.

✔ **Student Volunteering:** No. of students engaged in community service.

✔ **NGO & Government Collaborations:** No. of tie-ups for societal impact.

☐ **Monitoring Frequency:** Annual.

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9. Governance & Strategy Execution

☐ **Goal:** Ensure transparent administration and effective leadership.

Measurable Outcomes:

✔ **Strategic Implementation Committees (SICs):** No. of active committees and meetings held.

✔ **Stakeholder Feedback:** Surveys from students, faculty, and industry partners.

✔ **Financial Performance & Funding Utilization:** Annual budget reports and fund allocation efficiency.

✔ **Decision-Making Effectiveness:** Time taken for approvals and policy implementations.

☐ **Monitoring Frequency:** Quarterly.

By defining these **measurable outcomes**, MSS College of Engineering and Technology, Jalna can ensure that its **Institute Development Plan (IDP) is implemented effectively and evaluated systematically.**

✅ **Clear tracking metrics** ensure timely progress.

✅ **Regular monitoring** identifies gaps and allows corrective actions.

✅ **Continuous improvement** strengthens institutional excellence.

OVERALL CONCLUSION

The **Institute Development Plan (IDP)** for **MSS College of Engineering and Technology, Jalna** provides a **strategic roadmap** for institutional growth, academic excellence, and holistic student development. The structured plan focuses on **improving curriculum, strengthening industry collaboration, enhancing research, upgrading infrastructure, and promoting innovation and entrepreneurship.**

Key Takeaways from the IDP Implementation:

1. **Academic Excellence**

   - Curriculum aligned with industry trends and emerging technologies.
   - Implementation of **Outcome-Based Education (OBE)** and skill-based learning.

2. **Industry Integration & Placements**

   - Strong **industry collaborations, MoUs, internships,** and **placement enhancement programs.**
   - Increased opportunities for **live projects and industry-sponsored research.**

3. **Research & Entrepreneurship Development**

   - Encouragement of **research publications, patent filings, and funded projects.**
   - Establishment of **Startup & Innovation Centers** to promote entrepreneurial culture.

4. **Faculty Development & Capacity Building**

   - Continuous learning through **FDPs, Ph.D. programs, and industry exposure.**
   - Implementation of a **performance-based faculty appraisal system.**

5. Infrastructure & Smart Campus Development

- Upgraded labs, smart classrooms, Wi-Fi connectivity, and digital resources.
- Sustainability initiatives for a green campus and eco-friendly practices.

6. Student Development & Holistic Growth

- Increased student participation in technical, cultural, and sports activities.
- Strengthened career guidance, mental health support, and mentoring programs.

7. Accreditation & Institutional Branding

- Attainment of NAAC, NBA, and NIRF rankings for national and international recognition.
- Strengthened alumni network and partnerships for institutional growth.

8. Social Responsibility & Community Engagement

- Implementation of rural outreach programs, sustainability initiatives, and skill development projects.
- Collaboration with NGOs and government bodies for social impact.

Monitoring & Continuous Improvement

- A data-driven approach using KPIs (Key Performance Indicators) ensures timely progress tracking.
- Regular reviews, stakeholder feedback, and corrective actions help maintain quality and efficiency.
- Integration of technology-driven monitoring systems for better governance.

With a **well-defined** strategy, **structured execution**, and **continuous evaluation,** MSS College of Engineering and Technology, Jalna is positioned to become:

✓ **A center of academic excellence.**

✓ **An industry-aligned, research-driven institution.**

✓ **A hub for student innovation and entrepreneurship.**

✓ **A nationally and globally recognized technical institute.**

By effectively **implementing and sustaining** the IDP, **MSS College of Engineering and Technology, Jalna** will **transform into a leading engineering institution,** creating a positive impact on students, faculty, industry, and society.

Dr. S.K. Biradar
Principal
PRINCIPAL
MSS's College of
Engg. & Tech. Jalna.