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, which 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 Aurangabad. 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 32 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.E.)

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

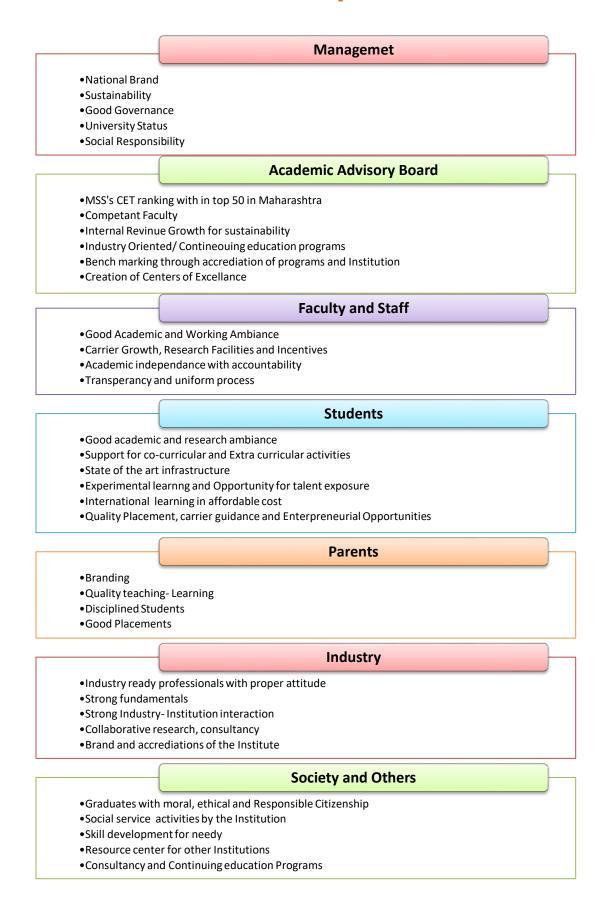
Post-Graduate Programs (M.E/ MBA)

- 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 and Electronics Engineering
- 4. Mechanical Engineering

Stake Holders' Expectations



Environmental Scanning and Analysis

- **Economic Factors** are analysed, GDP is at 7.7 % for 2018, with new government in place. There are Huge opportunities may come up in terms of placement, Higher Education, research and innovation. This will have positive impact for the institutes providing quality education and research.
- Social Factors were analysed and the parent community and society are encouraging their wards and looking for placements but not on real education which will enhance knowledge. Placement should be one of the goals in students mind but not the only goal; this trend will bring down the curtains on innovation and entrepreneurship.
- **Technological Factors** were discussed and the extensive use of technology in teaching learning needs to be a key enabler in higher education. Emerging technologies and need for training faculty to face these challenges. E-learning /online learning/online examination may replace traditional class room teaching-learning practice. The faculty need to change their educational skills to match these challenges.
- **Political Factors** at the state & centre are not favouring faculty in research facilitation for those working in private institutions. Also there is no clarity on admission policy and fee structure from government which could be a challenge. National Skill Development is the need of the hour and funding with a specific focus on building skill record needs to be strategically planned.
- **Regulatory Factors** are of concern as MSS's CET is plagued by several unscheduled inspections, though MSS's CET is the most preferred institute and struggling hard to pursue accreditation. Entering of other technical Universities may pose a great challenge in the years to come in the form of competition.
- Market /Competition Factors are posing some challenges as many Deemed /Private state universities- Industry lead universities are getting started in many states. Infrastructure and funding may not be a differentiator any more. Quality teaching, research, ambience and placements could be critical factors. There needs to be a serious thought on incentives for performers, for this a consensus has to be arrived at. An internal IQAC will take care with external experts.

SWOC Analysis

Institutional Weaknesses **Institutional Strengths** *Lack of awareness for research and *Strong and consistent academic result of final year students with few among consultancy University Toppers *Less faculties with Ph.D. gualification *Adequate Infrastructure and learning *Moderate Placement ratio resources *Majority of Students belonging from *Young, diverse and competent faculty rural and poor economic background having good team work spirit *Active National Service Scheme Unit working rigorously for extension activities **SWOC Institutional Challenges** Institutional Opportunities *Enhancing Soft skills capabilities among *To explore research and consultancy students as they majorly belong from work for number of industries around rural area Institutes vicinity *Less Favouring by students and staffs *To increase number of linkages and due to Location disadvantage MOUs with industries for the benefits of students and teachers *Placement drives and opportunities by **Multi-National Companies** *To expand technological development and awareness in rural areas *Fulfilment of 100% admission due to financial weaker section of students and *To encourage faculty for Ph.D. nearby region has been facing low rainfall and draught challenges from last few years

Strategic Goals

MSS's CET Leadership Team after brain storming the vision, mission, quality policy, core values, environmental factors and SWOC analysis arrived at the step to establish High Level Goals (HLG) which are also called Institution Strategic Goals (ISG)



1. Good Governance

Governing Body	 Merit based GB appointment Performance management of GB members through specific responsibilities Evaluation of institutions performance and bench marking Guiding and approving policy matters
Vision, Mission and Institution Goals	 Vision, Mission development & their articulation Setting short term and long term goals Institutional Strategic development plan Institutional strategic goals setting
Transparency & Leadership	 Transparency in Leadership & appointment of Key positions Service conduct rules and polices formulation, approval & implementation Grievance Redressal mechanism Leadership Development through decentralization Establishing E-Governance- (Management Information System) MIS- Data analysis
Internal Quality Assurance Cell & Accreditation	 Setting up of IQAC with internal & external members to audit processes Establishing internal audit committee for regulatory compliance Systems, checks and balances- Remedial measures.
Students Participation	 Students nomination to Governing Body Their suggestions in various academic and student affairs

2. University Status

Vision & Budget allocation	 Discussion in Governing Body and approval for University status Resource planning & budget approval
Preparation of UDP & pre- assessment	 Constitution and appointment of committee to prepare University Development Plan (UDP) Formation of Academic Council, BoS and Liaison officeretc) Preparation for pre-assessment & assessment
Accreditation & Certifications	 Accreditation & Assessment cell Inspections preparation & Approvals
Statutory Inspections	 Statutory inspections planning and preparation Inspections facilitation & remedial measures Provisional university approval status

3. Leadership Development

Developing Ownership	 Motivating through interactions Partnership incentive plans
Assessment & Identification	 Expert committee to assess all existing leaders potential Find gaps and structure changing Identify positions for external
Decentralization	 Decentralize the academic, administration and student related Prescribe duties, responsibilities and accountability Rotation of key posts to build leadership
Development & Job Rotation	 Develop Leadership competencies Plan for Job rotation /enlargement /enrichment assignments Plan for new /crisis assignments
Retention Measures	 Growth retention plans through Career advancement. Golden handcuffs through (monetary /welfare)

4. Financial Management

Budgeting	 Department wise Budget planning of all heads of department Forecast & estimation of revenue Forecast & estimation of expenditure Emergency plans Budget formulation & approval through LGC
Financial Governance	 Planned expenditure management Procurement and Financial policies implementation Quartarly Audit and checks- balances Support through research, consultancy and training
Outflow Management & Growth plans	 Monitoring expenses as per budget planning Predicting internal revenue generation Treasury (surplus funds) management Growth- Expansion plans

5. Physical infrastructure

Green Campus (Keeping with the Vision & Mission)	 Plantation, Rain water harvesting and green cover Energy harvesting & management Hygiene, solid waste management (zero plastic usage) Reuse of waste Efficient usage of recycled waste water from STP
Academic infrastructure	 Aesthetic Class rooms, Tutorials, Seminar halls State of the art Laboratory & equipment
Library	 Library infrastructure up gradation Functional Furniture and fittings for e-learning
Residential Township	 Staff quarters and township facilities Safety, Security management Water facility and health centre
Sports, Hostel & Canteen	 Developing sports (indoor/outdoor) facilities Hobby clubs, Canteen & community centre Additional Hostels facility for boys & Girls within the campus

6. Teaching- Learning Infrastructure

Smart Class rooms	 Smart boards Multi-room instructional facility Multi media and support equipment E-Learning facilities
Laboratory- R&D Equipment	 R&D Laboratory and its maintenance Simulators Industry equipment (centres of competence) for consultancy
Knowledge Engineering (KE) & Information and Communication Technology (ICT)	 Licensed softwares Hardware (Servers, Computersetc) Pedagogy tools Online learning tools Evaluation & assessment tools Learning Management System ICT for 360 deg. Feedback.
Books and E-Learning	 Books, Journals, Periodicals, Magazines Online access to E-media Departmental library books

7. Library & Information Centre

Infrastructure enhancement	 Budget allocation Infrastructure (Buildings & Furniture) CCTV and Lockers facility
Removal of obsolescence in Books & Resources	 Books, journals procurement, storage and retrieval Resources automation & Access (24X 7)
Digital & E- Library	 Digitization of Library resources Establishing tie ups with e-libraries & online access

8. Attraction, strengthening and retention of Faculty

Talent Hiring & Retention policy	 Career advancement Schemes Scientific induction/ orientation of new talent Critical talent identification & retention measures Offers best career to faculty
UGC /AICTE Scales, Rewards & Recognitions	 Set attractive policies to mainatin staff cadder ratio Additional cadres to be created for deserving staff Rewards – recognitions & incentives Welfare policy formulation & implementation
Conducive working environment	 Best work facilities and infrastructure Role & responsibilities clarity and empowerment Online access to Library- journals 24X7 hours Township /quarters facility
Career growth & Development	 Sponsorship/ Deputation, sabbaticals for higher education & Exchange programmes Sponsorship to participate in national /international conferences Deputation to premier national /international universities/industry

J. Teaching Learning and Lvaluation Trocess	
Bench mark with Premier institutes	 Constitute academic teams and visit premier institutions Customise & Implement best practices
Curriculum Design & Lesson plan	 Design curriculum as per all graduate attributes and expectations of stake holders Develop lesson plan as per OBE & academic calendar Develop e-learning content Benchmark with industry requirements Use of Learning Management System (LMS) to support students
Training Needs Accessment (TNA) and upgrading faculty & staff competence	 Conduct training need analysis every two years Conduct / depute faculty and staff for competence development Support paper publications and presentations Provide opportunities for networking Train faculty to use Learning Management System (LMS) effectively
Knowledge Delivery & Outcome based education	 Define outcomes of each teaching learning initiative Continuous Assessment and evaluation to measure outcomes Establish Research Culture Access to online learning Mentor on academic, career & higher educational opportunities
Evaluation & Assessment	 Create proper feedback system Continuous progress assessment Question bank development & Term end examinations Credit transfers and performance development

9. Teaching-Learning and Evaluation Process

10. Industry- Institute Relationships

Industry Data base & Intelligence	 Strengthen placement, training and industry institute interaction cell Identify branch wise preferred industries & companies Identification of potential areas of research MoUs & Non-Disclosure Agreement (NDA) with potential industries/companies Professional bodies membership Invite industry experts for guest lecturers /talks/seminars 	
Leverage Industry Resources	 Partner with industry for syllabus reviews/advisory roles Deputation of faculty to Industry on sabbatical Leverage for internships, research projects, consultancy & placements Scholarships 	
Leverage Institutional Resources for Industry	 Training and talks by faculty Consultancy and testing to industry Starting of training programs for industry personal Enrolling industry personnel for Ph.D. 	
Setting up Centres of Excellence	 Identify potential industries who can establish centres of excellence department wise Establish and operationalize centres of excellence Setting up of chairs in specific domains by industry 	
11. Research, Development and Innovation		
R&D Infrastructure &Teams	 Enhancing R&D laboratories in all departments Modernisation and removal of obsolescence of laboratories Dedicated R&D facilitation & documentation centre Competent technical staff for R&D labs Start new Journals with scopus indexing. 	
	 Modernisation and removal of obsolescence of laboratories Dedicated R&D facilitation & documentation centre Competent technical staff for R&D labs 	
&Teams Establishing Centres of	 Modernisation and removal of obsolescence of laboratories Dedicated R&D facilitation & documentation centre Competent technical staff for R&D labs Start new Journals with scopus indexing. Fund raising through Project proposals Apply for TEQIP/Government/ other funding Establishing centres of excellences 	
&Teams Establishing Centres of competence MOU with premier institutes/ R&D	 Modernisation and removal of obsolescence of laboratories Dedicated R&D facilitation & documentation centre Competent technical staff for R&D labs Start new Journals with scopus indexing. Fund raising through Project proposals Apply for TEQIP/Government/ other funding Establishing centres of excellences Establishing Consultancy cell MoUs with higher learning institutions in India & abroad. Collaborations with ICT, IISC, IITS, TIFR, ISRO, DRDO, NAL, HAL, BELetc 	

12. Quality Assurance Systems

Establishing	 Setting up bench marks & system flow Quality Policy steering committee
Quality Systems	 Publishing Quality system design & culture Educating & Training of all employees
Internal Quality Assurance & Assessment cell	 Setting up of IQAC team Periodic checks and guidance
Accreditation & Certifications	 Internalise the process based on Choose accreditation/certification agency Audit and certifications
Audit Internal Controls	 Establish audit process & audit teams Train internal auditor teams Audit and remedial measures
Continual improvement, Rewards &Recognitions	 Setting up of Quality assurance cell Identifying achievements & best practices Quality circle competitions & rewards Annual competitions

13. Entrepreneurship

Entrepreneurship Development (EDP) Cell	 Strengthning of dedicated EDP cell Budget /seed funding for funding initial projects Identification of emerging areas of entrepreneurship
Identification of students, mentors & Training	 Identify interested students for entrepreneurship Identify mentors from successful entrepreneurs from Alumni/others Formal training on entrepreneurship
Leverage Promotion agencies	 EDP agencies and networking Competitions participation Leverage for funding & support
Incubation & Pilot projects	 Establish incubation centre for prototypes Provide incubation support for students Incubation support for outside SMEs

14. Placements, Internships & Career Guidance

Placement & Career guidance Department	 Dedicated team Modernisation of infrastructure (Video conferencing, interview & conference rooms) Video recording of mock up interviews of students and feedback 	
Industry MOUs- Intelligence	 Data base of various potential industries/companies MOU s and relationship management Industry experts as resource persons 	
Training & Development	 Awareness programmes Value added programmes (soft skills & domain expertise) Competency enhancement centre 	
Internships, Placement process & Success stories	 Internships planning and execution Placement process coordination Success stories celebration- Brand building 	

15. Extra-Curricular and Co-curricular activities		
State of the art infrastructure	 Budget allocation Establish state of the art infrastructure (indoor/outdoor) Formation of hobby clubs 	
Coaching, training & competitions	 Dedicated coaches /trainers recruitment Regular training /coaching classes Participation in tournaments/competitions Hosting competitions/ tournaments 	
Credit transfer, Rewards & Recognition	 Admission priority for state/national achievers Academic credits transfer Attendance compensation Reward & Recognise achievers 	

16. Alumni Interaction

Alumni Association	 Strengthen Alumni association and engagement Establish alumni association office on campus, engage students Data base updation and interactive alumni website Establish global chapters and networking 	
Relationships & Leveraging	 Regular interactions /invitations Recognise successful alumni Leverage for guest lecturers/internships/placements Academic advisors/ Board of governors 	
Endowments	 Explore Contributions / endowment partnering Brand ambassadors Sponsorships/scholarships 	

17. Community Service and Extension activities

Budget and Resources	 Budget from institution resources Budget from Faculty/students/Govt/other donors 	
Village adoption & Rural Projects	 Identify nearby villages for adoption Study rural projects and challenges Explore & provide support to the execution of projects 	
Vocational training	 Identify the job oriented courses as per local needs Provide vocational training at the institute Educational support to village students 	
Health and hygiene support	 Conducting health awareness camps Arrenging free medicines to the needy Psychological and psychiatric support 	

18. Global Initiatives	
New Campuses / Programs	 MoUs with the Institutions of various countries Twinning programmes with leading universities of various countries
Foreign Students	 Attracting foreign students under Student Exchange Programs (SEP) Twinning programmes with foreign students
MoUs with Foreign Governments/ Institutions	 Identify foreign higher level learning institutions MOUs with potential partner institutions MOUs with governments for education & projects

Strategy Implementation and Monitoring

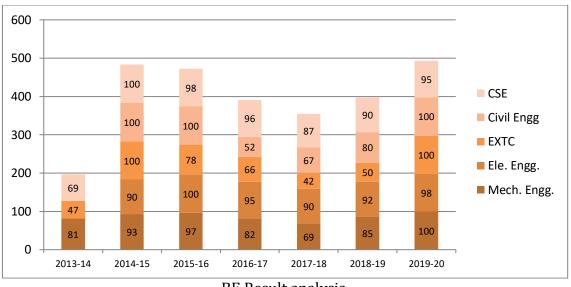
Strategic development plan once approved by Governing Body the next immediate step is its implementation in true spirit. Strategy when being implemented, the progress shall be measured from time to time through the IQAC. SMART (Specific, Measurable, Attainable, Realistic and Time bound) concept is made use of while arriving at implementation plans. All the measures of success are clearly spelt out in the implementation document and Head of the institution along with leadership team is the custodian for implementation and its success.

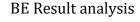
Good Governance &	GB, Members of GB
Administration	
Finance Management	Budget Committee, LGC and CDC
Institution Statutory	Principal, Vice-Principal, HOD's, OS and
Compliance	Coordinators
Branding /Expansion	GB members, Leadership team & Public
	relations team
University Status	GB / Special Committee
Talent Management	GB and Principal
Infrastructure (physical)	GB, HOD (Civil Engg.) & team
Infrastructure-Academics	Principal, Vice-Principal, HODs and Faculties
Teaching- Learning	Principal, Vice-Principal, HODs, Faculty and
	Staff
Research	R&D Coordinator
Student affairs	Student affairs Coordinator
Student admissions	Admissions Coordinator, Principal, Vice-
	Principal and HODs
Departmental activities	HODs and Faculty
Placement & Training	Training & Placement Officer and HoDs

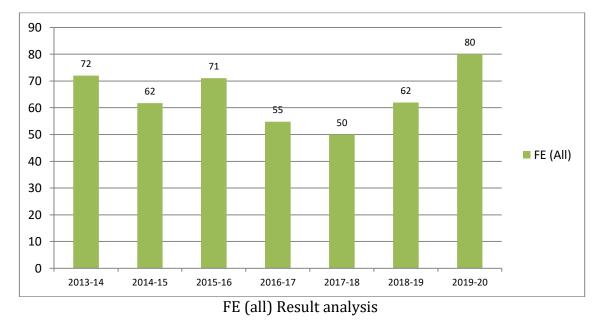
Implementation Plan at Institution Level

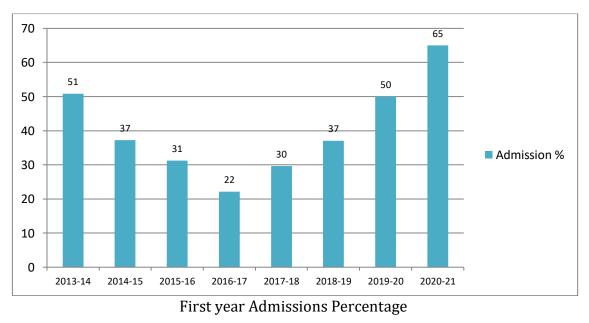
Measurable during Implementation

Good Governance	•GB selection, appointment, functioning, good governance initiatives, Management commitment, Vision-Mission reviews, Number of meetings conducted, decisions made, Committees appointment, performance, Polices implementation, grievance procedures, Educational ERP implementationetc.	
Talent Management	 Recruitment, Selection of faculty, staff, salary, attrition rate, benefits as per UGC/AICTE norms, Track Faculty and staff performance. 	
Student Intake Quality	•CET ranking, Students profile, PUC marks score	
Student Academic Performance	 Pass percentage, number of distinctions & first classes, Graduate attribute attainment levels and alumni feedback. 	
Placement	•Number of offers made through placement department, average salaries offered, Companies visiting the campus, Number of graduates pursuing higher education, number of students becoming eligible for higher education through GRE/GATE/CAT/GMATetc, Public sector and other Government jobs, percentage of graduates becoming Entrepreneurs.	
Inplant Training and Sponsored Projects	 Students going for Inplant Training and increse in sponsored projects 	
Curriculum	 Curriculum review & design, Industry partnerships, Faculty training on new areas, Introduction of new courses, new add-on courses/ electives offered in emerging areas. 	
Alumni	 Alumni data base, number of interactions, support for internships, placements, projects, scholarships, consultancy and contribution towards infrastructure development. 	
Research and Consultancy	 Publications in national/international journals and conference proceedings, Patents filed, conferences & workshops organised, New MOUs signed with academic and industrial organizations, Centres of competence established. 	
Physical Infrastructure and Green Initiatives	•Number of buildings, class rooms added, removal of obsolescence, equipment added, annual budget allocated & utilized. Increse in green initiatives such as increase in social activities, tree plantation and conservation, increase the capacity of solar panels, increse in bird feeders and houses, etc	
Social Responsibility	 Number of villages adopted through NSS activities, vocational trainings provided, social projects undertaken and skill development programs for marginal section of the society. 	
Extra Curricular Activities	 Number of student participants, number of tournaments won, number of sports and Techno-cultural events organized, Regional, National & International recognitions received, competitions participated. 	
Sources of Funding	•Students – Tuition Fees, Government reimbursements, Government grants, Industry Sponsorships for intercollegiate events, Funding raised through sponsored Projects, Consultancy /Testing, Services, International grants, Alumni Contribution, Trust Fund income.	

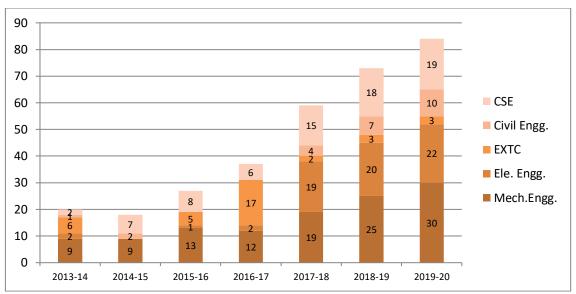




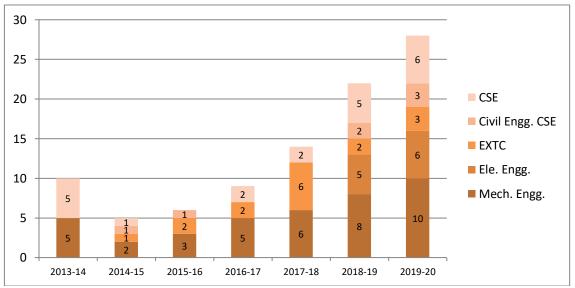




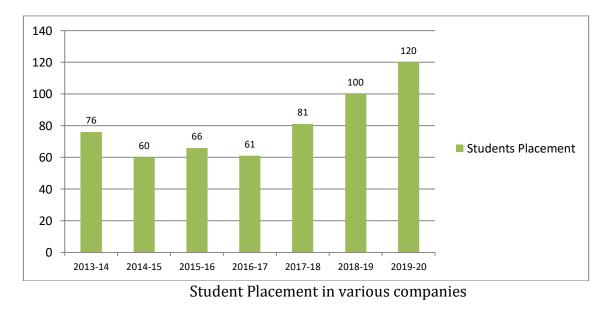
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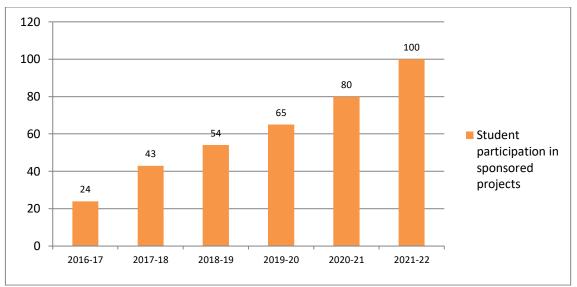


Research Paper publications by faculties in International/ National Journals

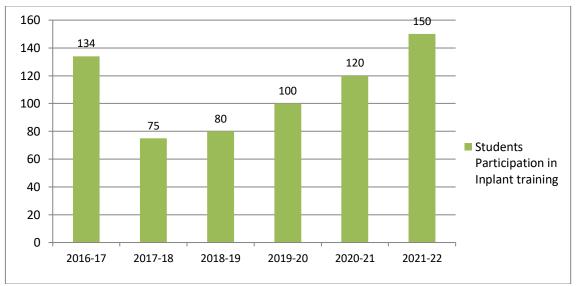


Research Paper Presentations by faculties in International/ National Conferences

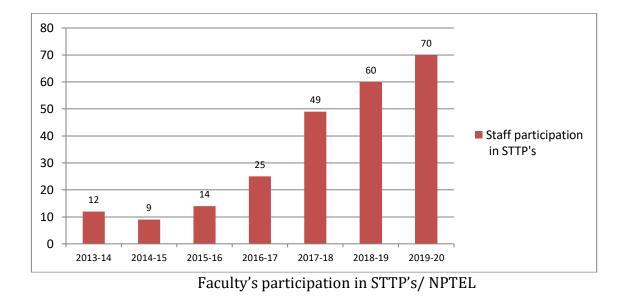


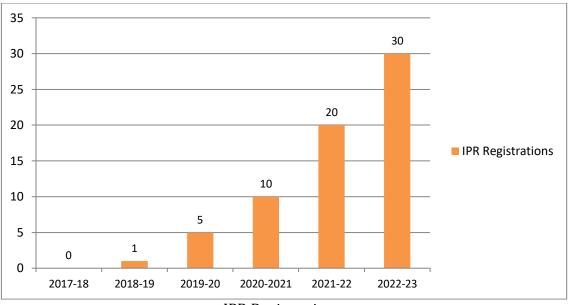


Student's involvement in sponsored Industrial Projects

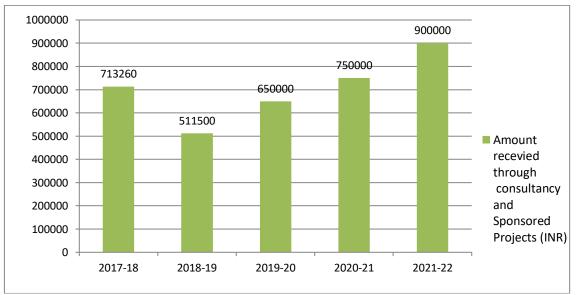


In-plant training by Students





IPR Registrations



Amount received through consultancy and sponsored projects

Conclusion

MSS's CET was started with humble beginnings in 2002 and completed 16 years successfully. The Institute has progressively grown and achieved many mile stones. The Institute has done very well in placements in spite of the economic recession for the last 05 years. The Institute is affiliated to Dr.Babasaheb Ambedkar Marathwada University, Aurangabad and is always following raising syllabus as per current Industrial requirements.

The Strategic Development Plan (SDP) is an outcome of Management Commitment, Institute Leadership Commitment and Steering Committee's detailed deliberations with all the stake holders. This collective wisdom ensures participation, ownership of the plan among all the stake holders. The Institutional strategic goals have strategies; Strategies have sub strategies with detailed Implementation plan to ensure success and sustainability over a period of time. The execution and operational implementation is monitored by stringent evaluation standards and speaks the quality of the strategy itself. The caveat is Strategy itself can do nothing but its implementation holds the key. The strategy is not static document but dynamic due to continuous changing environment and it is an ongoing process to evolve as per the necessity.

> Dr.S.K. Biradar Principal