



## Articulation and implementation of the institutional Strategic/ Perspective plan

### Preamble

The Institute has developed following strategic plans to ensure the vision & mission of Institute at Academic & Administrative levels. The Board of Governors of the Institute has approved the plans & continuously monitoring the same for effective implementation & progress of the plan specific activities to ensure the quality education.

1. Academic Development Plan
2. Perspective Plan

**Academic Development Plan:** The Plan has following key components with specific activities and timeline:

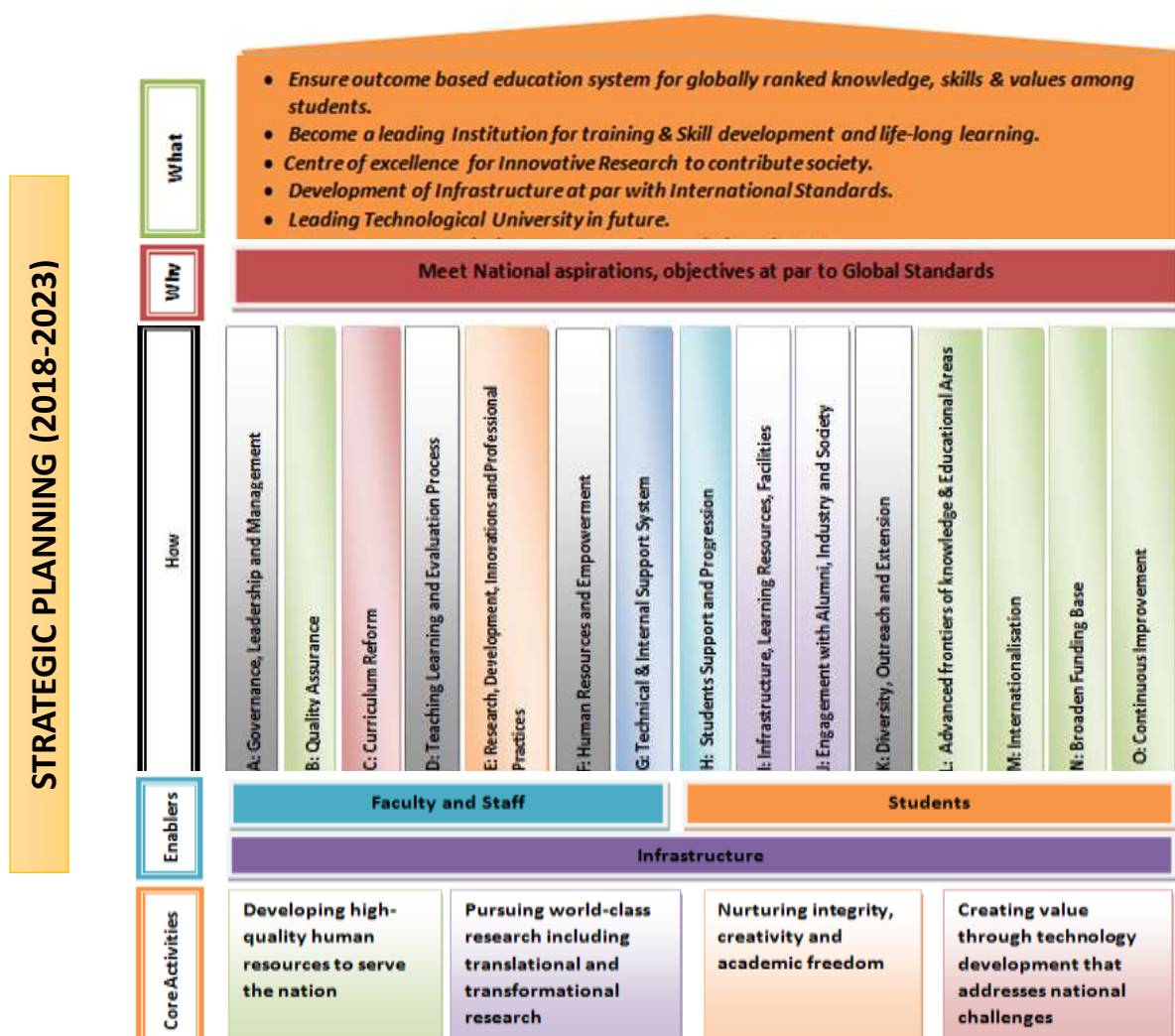
- Accreditation Status
- Faculty Recruitment
- Academic Reforms
- Academic Improvement Projections
- Students Progression Targets
- Development (IT Infrastructure, Laboratories and Innovation Cell)
- Faculty Knowledge enhancement
- Students Activities

**Perspective Plan:** The Perspective Plan of the Institute is prepared for the development up to 2023. Apart from monitoring by BoG, the state government also monitors the progress and implementation through review meetings. Following are the Specific Objectives & Targets (Interventions) of the perspective plan:

- A. Governance, Leadership & Management
- B. Quality Assurance
- C. Curriculum Reform
- D. Teaching Learning & Evaluation Process
- E. Research, Development, Innovations & Professional practices
- F. Human Resources Empowerment

- G. Technical & Internal Support system
- H. Students Support & Progression
- I. Infrastructure, learning Resources, Facilities
- J. Engagement with alumni, Industry & society
- K. Diversity, Outreach & Extension
- L. Advanced frontiers of knowledge & Educational Areas
- M. Internationalization
- N. Broaden funding base
- O. Continuous Improvement

### Strategic Planning:





## Monitoring & Evaluation

Monitoring & Evaluation						
Year	Existing	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
<b>Monitoring &amp; Corrective Measures on following parameters for improvement</b>						
1	Transition rate of students (Without Backlog from first year to second year)					
	71.12%	73%	75%	77%	79%	81%
2	Pass percentage of students					
	93%	94%	95%	96%	97%	98%
3	COs, POs and PSOs attainment levels					
	60%	63%	65%	67%	70%	72%
4	Placement numbers, quality, core hiring industry and pay packages					
	65% Placement Average Package: Rs. 3,70,000/-	67% Placement Average Package: Rs. 4,00,000/-	69% Placement Average Package: Rs. 4,50,000/-	71% Placement Average Package: Rs. 4,70,000/-	75% Placement Average Package: Rs. 5,00,000/-	80% Placement Average Package: Rs. 5,20,000/-
5	Higher Studies admissions for pursuing Ph.D. in premier institutions					
	2%	3%	4%	5%	6%	7%
6	Number of students admissions at UG, PG & Ph.D. level.					
	UG: 97.9% PG: 85% of offered courses Ph.D.: 28	UG: 100% PG: 90% of offered courses Ph.D.: 32	UG: 100% PG: 95% of offered courses Ph.D.: 37	UG: 100% PG: 100% of offered courses Ph.D.: 42	UG: 100% PG: 100% of offered courses Ph.D.: 47	UG: 100% PG: 100% of offered courses Ph.D.: 52
7	No. of GATE Qualified students					
	22%	30%	40%	50%	55%	60%
8	No. of students opted for entrepreneurship/ start-up					
	2%	4%	6%	8%	10%	13%
9	Quality of students admitted to the program					
	Improvement in JEE Ranks					
10	Number of total Quality research papers					
	SCI/Scopus: 84	SCI/Scopus: 130	SCI/Scopus: 150	SCI/Scopus: 170	SCI/Scopus: 200	SCI/Scopus: 250
11	Increase in number of New UG & PG Program					
	01	01	01	01	01	02
12	Number of research, consultancy projects					
	05	07	10	12	14	16



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal, M.P.)

Gola ka Mandir, Gwalior (M.P.)- 474 005, INDIA

Ph.: +91-751-2409300, Fax: +91-751-2664684, e-mail: director@mitsgwalior.in, website: www.mitsgwalior.in

13	Development of offline & online course material					
	Under Progress	25	30	35	40	45
14	Innovations and product commercialization					
	01	02	03	04	05	06
15	IPR & Patents					
	03	05	07	09	11	13
16	Institute Ranking & Recognitions (NIRF)					
	Applying	Under 100	Under 100	Under 100	Under 90	Under 90
17	NBA Accreditation					
	UG: 01	UG: 04	UG: 06	UG: 07	UG: 08	UG: 10
	PG: 01	PG: 01	PG: 03	PG: 05	PG: 06	PG: 07
18	NAAC Accreditation					
	B++ Grade	B++ Grade	A+ Grade	A+ Grade	A+ Grade	A+ Grade

## ➤ Monitoring of Development Plan & Perspective Plan by Governing bodies through meetings:

Body/Committee and Frequency of Meeting	Date of Meeting				
BoG (Quarterly)	11.01.2022, 28.01.2021, 30.11.2019, 12.06.2018, 07.02.2017,	14.10.2021, 11.11.2020, 28.09.2019, 29.01.2018, 26.12.2016	31.07.2021, 27.07.2020, 18.07.2019, 12.10.2017,	21.05.2021, 16.06.2020, 24.06.2019, 03.08.2017,	30.04.2021, 25.04.2020, 30.11.2018, 09.07.2017,
HR Committee (Quarterly)	15.12.2021, 06.03.2020, 17.07.2019, 08.07.2017,	18.08.2021, 26.09.2020, 31.03.2019, 29.01.2017	03.07.2021, 10.07.2020, 10.11.2018,	16.04.2021, 06.03.2020, 02.06.2018,	10.10.2020, 19.09.2019, 20.01.2018,
IT & IR Committee (Quarterly)	18.08.2021, 14.05.2020, 04.06.2019, 31.10.2018, 20.01.2018, 20.05.2017,	19.07.2021, 18.03.2020, 31.03.2019, 01.06.2018, 19.12.2017, 19.12.2016,	16.04.2021, 06.03.2020, 02.02.2019, 17.04.2018, 08.07.2017, 29.05.2016	16.03.2021, 19.09.2019, 23.01.2019, 10.03.2018, 29.06.2017,	10.10.2020, 24.06.2019, 11.11.2018, 29.01.2018, 05.06.2017,
Executive Committee (Twice in a Year)	11.10.2020, 12.06.2018,	27.09.2020, 20.01.2018,	15.07.2020, 08.07.2017	04.06.2019,	11.11.2018,
Finance Committee (Yearly)	11.01.2022, 26.12.2016	15.01.2021,	29.04.2020,	30.11.2018,	29.12.2017,
IQAC (Quarterly)	23.12.2021, 29.08.2020, 27.06.2019, 24.02.2018,	08.10.2021, 30.06.2020, 22.05.2019, 19.08.2017	25.06.2021, 03.03.2020, 22.12.2018,	06.03.2021, 30.11.2019, 08.09.2018,	11.12.2020, 24.08.2019, 30.05.2018,
Academic Council (Twice in a Year)	28.12.2021, 01.06.2019,	28.06.2021, 25.10.2018,	05.12.2020, 26.04.2018,	15.06.2020, 23.09.2017,	07.12.2019, 11.11.2016, 02.04.2016





Case Study regarding one activity/practice successfully implemented based on the institution's strategic plan:

Successful Implementation of Curriculum Reforms: As per Perspective Plan (Attached) of the Institute, following interventions have achieved by the Institute:

C. Curriculum Reforms							
Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Curriculum Design & Development					Twice/Year	Dynamically
2	Introduction of new courses focused on employability/entrepreneurship/skill development					Introduced as open electives	Technology Based
3	Revision of Syllabus as per current Societal & Industrial Need					Twice/Year by conducting syllabus revision workshops	Continuous Improvement
4	Industry & alumni involvement in the program design and Curriculum					Direct & Indirect	
5	A Balanced structured Curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs)					Implemented from 2017-18	Continues Improvement
6	Implementation of Academic Flexibility through Flexible curriculum System					Implemented from 2017-18	Continues improvement
7	Curriculum Enrichment via audit courses					Implemented w.e.f. 2018-19	Dynamically
8	Implementation of Feedback System to collect feedback from Students, Teachers, Employer & Parents for Curriculum development					Through Online feedback mechanism	Increase in frequency
9	Conduction Value-added courses to impart transferable and life skills					16 Value Added Courses are launched in 2018	Need Based
10	Provision of Internship (in-house/Industrial) in every academic year of study					In-House Summer Internship Program started in 2017-18 for I year (42 Modules) & Industrial Internship is mandatory for II & III Year students	



11	Encouraging for Industrial Projects to solve the real time Industrial problems	Partial Financial Support for Industrial and Interdisciplinary projects	All Deserving
12	<p>Review &amp; Corrective measures on implementation of OBE:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Mapping courses and the POs &amp; PSOs.</li> <li><input type="checkbox"/> Framing COs for every course.</li> <li><input type="checkbox"/> Availability of COs embedded in the syllabi.</li> <li><input type="checkbox"/> Course Articulation Matrix (Mapping of CLOs with COs) table.</li> <li><input type="checkbox"/> Program Articulation Matrix (Mapping of CLOs with POs) tables.</li> <li><input type="checkbox"/> Development of assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based.</li> <li><input type="checkbox"/> Attainment of Course Outcomes of all courses with respect to set attainment levels.</li> <li><input type="checkbox"/> Development of assessment tools and processes used for assessing the attainment of each of the POs &amp; PSOs.</li> <li><input type="checkbox"/> Evaluation of each PO &amp; PSO.</li> <li><input type="checkbox"/> Review and improvement in attainment levels of Cos, Pos &amp; PEOs.</li> </ul>	The Cos, Pos and PSOs are prepared and revised as per NBA guidelines. The attainment level of each COs is evaluated and corrective measures are taken for improvement in attainment levels.	Continuous Improvement



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# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

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**A Govt. Aided UGC Autonomous & NAAC Accredited Institute, affiliated to RGPV, Bhopal**

## PERSPECTIVE PLAN 2018-2023

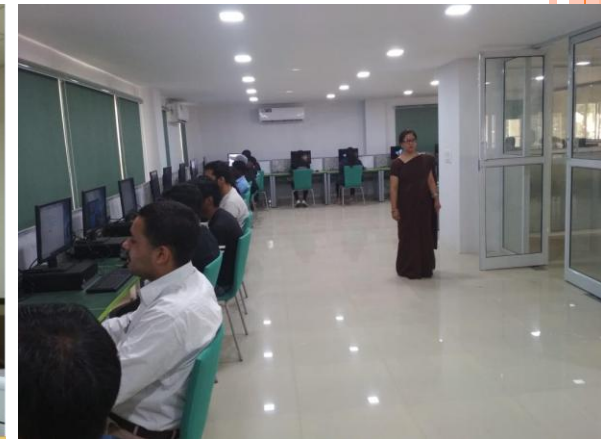
**Dr. R. K. Pandit  
DIRECTOR**



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## SMART TECHNICAL EDUCATION: “DATA + DIGITIZATION”

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# POINTS TO BE COVERED

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- ❑ Introduction
  - ❑ Vision of Institute
  - ❑ Mission of Institute
  - ❑ Values of Institute
  - ❑ Institute Profile
- ❑ SWOT Analysis
- ❑ Goals
- ❑ Perspective Plan-Objectives & Targets (Interventions)
- ❑ Budget
- ❑ Monitoring & Review Mechanism

## VISION

“To create world class quality Engineers and Technocrats capable of providing leadership in all spheres of life and society“

## MISSION

- To provide quality education in technical and allied disciplines.
- To organize and arrange innovative courses in Engineering and Technology.
- To arrange vocational courses in the upcoming fields and innovative subjects to meet global advancement.
- To promote research in the fields of Technology and Science.

## BRANDING STATEMENT

Mission to Innovate Technology for Society

## VALUES FRAMEWORK

To promote the following core values among the HEIs of the country:

- Contributing to National Development
- Fostering Global Competencies among Students
- Inculcating a Value System among Students
- Promoting the Use of Innovative Technologies in Teaching Learning
- Quest for Excellence

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# INSTITUTE PROFILE

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- ❑ Institute is managed by Scindia Engineering College Society (SECS) which is registered under the Societies Registration Act No. 53 of 1950 (no. 337 of 1956)
- ❑ The Promoter of the society was His Highness Lt. Gen. Maharaja Sir Jiwaji Rao M. Scindia, Maharaja of Erstwhile State of Gwalior in 1956 under the open door policy of Govt. of India.
- ❑ Foundation stone of the institute was laid by the then President of India, Dr. Rajendra Prasad on October 28th, 1956.
- ❑ The Institute building was inaugurated by the then President of India, Dr. S. Radhakrishnan on December 11th, 1964.
- ❑ Institute offers Eleven Undergraduate programmes.
- ❑ Nineteen Postgraduate programmes.
- ❑ Ph.D. programme in various disciplines.
- ❑ Institute is a QIP center of AICTE for Ph.D. programme under QIP & NDF schemes.
- ❑ Grant of academic autonomy by Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, since 2002.
- ❑ NAAC B++ Accredited
- ❑ UGC has granted academic autonomy to the institute for a period of six years w.e.f. July 2017.
- ❑ AICTE extended period of approval for 6 years w.e.f. July 2017.
- ❑ Institute has successfully completed TEQIP Phase-II project of MHRD, Govt. of India in the year 2017 and acquired 'A' Grade in six out of seven parameters.

# CONTINUED.....

- ❑ Institute is participating in TEQIP Phase-III project under focus state.
- ❑ MITS signed MoU with Delhi Technological University under twinning arrangement of TEQIP-III.
- ❑ DST established Entrepreneurship Development Cell, since 1988.
- ❑ Institute houses on-campus training center of SKF India Pvt. Ltd.
- ❑ Institute is also a A-VIEW Resource Center of IIT-Bombay and IIT Kharagpur for the conduction of workshops & enrichment of innovation in teaching learning process under MHRDs National Mission on Education through ICT.
- ❑ Study center of Indira Gandhi National Open University (IGNOU).
- ❑ B.Voc. Courses in Travel & Tourism, Medical Imaging Technology, Multimedia & Graphics and Automotive Manufacturing Technology are approved by AICTE w.e.f. 2018-19.
- ❑ Testing and Consultancy in various departments.
- ❑ MoUs and Collaboration with Industries & Research Organizations.

## Representative MoUs

- ❑ SKF India Limited,
- ❑ Infosys,
- ❑ IBM India Pvt. Ltd.,
- ❑ LUPIN, Laboratory Bhopal
- ❑ D'Auto Pvt. Ltd.,
- ❑ Aspen Tech., Pune
- ❑ IIT Gandhinagar,



- ❑ ABV-IIIITM, Gwalior, under Abhigyan Abhikaushalam Students' Forum.
- ❑ Supercomputing Lab of Bennett University under Initiative “making Deep Learning and AI Skills Mainstream in India by Royal Academy of Engineering”
- ❑ PDPM, Indian Institute of Information Technology Design & Manufacturing, Jabalpur
- ❑ Delhi Technological University,
- ❑ Madhya Pradesh Urja Vikas Nigam,
- ❑ CSIR- CBRI Roorkee.
- ❑ D' Auto Pvt. Ltd.,
- ❑ IET (The Institution of Engineering & Technology)
- ❑ Central Institute of Plastics Engineering & Technology (CIPET), Gwalior
- ❑ Sciencetech Technology Pvt. Ltd., Indore
- ❑ Smart Control Pvt. Ltd., Gwalior
- ❑ Eminent Bioscience Indore
- ❑ India Solar Energy Consulting Pvt, Panipat Haryana
- ❑ FICCI (Federation of Indian Chambers of Commerce and Industry)
- ❑ CII (Confederation of Indian Industry)
- ❑ Police Reforms, Madhya Pradesh
- ❑ Department of Applied Science, ABV-IIIITM, Gwalior
- ❑ Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Citrakoot, Satna (MP)

## ❑ Students Enrollment

Total No. of Students	Gender Diversity		Social Diversity			
	Male Students	Female Students	General	OBC	SC	ST
5430	3801	1629	2932	1031	1140	327

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# SWOT ANALYSIS

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# STRENGTH

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- ❑ **UGC Autonomy till 2024**
- ❑ **NAAC Accredited (B++) Institute for 5 years**
- ❑ **A Govt Aided Institute with Golden Past record of 60 years. Estd in 1957**
- ❑ **44.6 Acre Green wi-fi campus** at mid of the City Gwalior (M.P.)
- ❑ The institute has well defined Vision, Mission and Goal.
- ❑ **Eminent personalities constitute** the management and **Board of Governors.**
- ❑ Updated Infrastructure & **Digital learning facility** in classrooms
- ❑ Programs **Accredited by NBA** & in process for further Accreditation process
- ❑ Institute online portal: **MOODLE**
- ❑ **NPTEL Local Chapter** ranked **84th** in 1200 Institutions in India
- ❑ Well qualified and energetic Human Resources
- ❑ Very **large base of Alumni** at top level positions
- ❑ In- House **Summer internship** program
- ❑ Effective **remedial classes** process
- ❑ Effective **Online feedback system** from its stakeholders
- ❑ **Top Student's** choice in the **State**
- ❑ **Approved Ph.D centre** and QIP centre
- ❑ Course curriculum revision regularly upgraded/revised under **BOS meetings.**
- ❑ Exercising **Academic Autonomy** successfully **since** the year **2002** under RGPV, Bhopal.
- ❑ The institute has an active **Entrepreneurship Development Cell**
- ❑ Having highest **placement** of students through **T&P cell** of the Institute in the region.

# WEAKNESS

- ❑ Financial constraints for removal of obsolescence & commencement of new demand based programmes/facilities.
- ❑ Extra built-up area required for new PG courses/UG increase in intake.
- ❑ Requirement of advanced Technical Resources & Learning Materials.
- ❑ Exposure of recent advances and trends in Engineering & Technology to the faculty and staff.
- ❑ Library up-gradation & office Automation needed.
- ❑ Auditorium, more Sport facilities, transportation & more accommodation for students/staff are required.
- ❑ Up-gradation of Networking of Campus.
- ❑ Need of advanced software & hardware.
- ❑ Up-gradation of modern and up to date research facilities.
- ❑ More collaborations with industries and institute of higher learning.
- ❑ More middle level faculty required.
- ❑ More faculty with Ph.D. degree required.
- ❑ Need of Student's soft skill, personality development programmes.
- ❑ Installation of modern teaching aids & facilities deprived faculty from learning pedagogy.



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# OPPORTUNITIES

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- ❑ To start demand based innovative courses
- ❑ To improve the quality of education by adopting modern tools, methodologies & learning Materials.
- ❑ To produce trained man power to face the global challenges.
- ❑ To develop world class Technical Resource Centre
- ❑ To strengthen skills of weaker section of society by imparting training for enhancing self employment to the nearby area.
- ❑ To be a part of global Economy by providing excellent Technical Human Resources.
- ❑ To establish world class research facility & to get involve in solving existing industrial problems at local/regional/National level.
- ❑ To participate actively in community development programme for regional upliftment.
- ❑ Professionally managed and well established 53 years old government aided institution provide good opportunity to attract more qualified and experienced faculties / staff.
- ❑ The City is well connected by road, rail and air to all parts of the country.
- ❑ The various research projects by the different funding agencies provides good opportunity for consultancy work.
- ❑ A large Alumni group, to support the institution.
- ❑ With good faculty strength, institute can organize National / International level seminars, conferences, workshops and continuous education programmes.

# THREATS

- ❑ The lack of exposure to new technology will become a hurdle for imparting high quality education to the students.
- ❑ Lucrative financial packages as well as facilities / resources provided by the private / foreign competitors will cause migration of good faculty members.
- ❑ Pace to fulfil the vision to mission and goal achievement due to resource constraints.
- ❑ Unable to face the challenges of fast changing scenario of global environment.
- ❑ Due to fast changes in government policies (in education sector), new foreign universities, private universities are coming up, which will cause great challenges and competition.

# GOALS

- ❑ Ensure outcome based education system for globally ranked knowledge, skills & values among students.
- ❑ Become a leading Institution for Training & Skill development and life-long learning.
- ❑ Centre of excellence for Innovative Research to contribute Society.
- ❑ Development of Infrastructure at par with International Standards .
- ❑ Leading Technological University in Future.
- ❑ To Launch Nano Satellite in Space by 2021 in association with ISRO.

# STRATEGIC PLANNING (2018-2023)

**What**

**Why**

**How**

**Enablers**

**Core Activities**

- Ensure outcome based education system for globally ranked knowledge, skills & values among students.
- Become a leading Institution for training & Skill development and life-long learning.
- Centre of excellence for Innovative Research to contribute society.
- Development of Infrastructure at par with International Standards.
- Leading Technological University in future.
- To Launch Nano Satellite in Space by 2021 in association with ISRO.

Meet National aspirations, objectives at par to Global Standards

A: Governance, Leadership and Management	B: Quality Assurance	C: Curriculum Reform	D: Teaching Learning and Evaluation Process	E: Research, Development, Innovations and Professional Practices	F: Human Resources and Empowerment	G: Technical & Internal Support System	H: Students Support and Progression	I: Infrastructure, Learning Resources, Facilities	J: Engagement with Alumni, Industry and Society	K: Diversity, Outreach and Extension	L: Advanced frontiers of knowledge & Educational Areas	M: Internationalisation	N: Broaden Funding Base	O: Continuous Improvement
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**Faculty and Staff**

**Students**

**Infrastructure**

Developing high-quality human resources to serve the nation

Pursuing world-class research including translational and transformational research

Nurturing integrity, creativity and academic freedom

Creating value through technology development that addresses national challenges



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# SPECIFIC OBJECTIVES & TARGETS



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- A. Governance, Leadership & Management
- B. Quality Assurance
- C. Curriculum Reform
- D. Teaching Learning & Evaluation Process
- E. Research, Development, Innovations & Professional practices
- F. Human Resources Empowerment
- G. Technical & Internal Support system
- H. Students Support & Progression
- I. Infrastructure, learning Resources, Facilities
- J. Engagement with alumni, Industry & society
- K. Diversity, Outreach & Extension
- L. Advanced frontiers of knowledge & Educational Areas
- M. Internationalization
- N. Broaden funding base
- O. Continuous Improvement

## A. Governance, Leadership & Management


Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Interventions
1	Conducting regular BOG (Board of Governors) Meetings					04 Meetings/Year	⇒⇒⇒
2	Organizing regular meetings of BOG Sub-committees <input type="checkbox"/> Executive Committee <input type="checkbox"/> Finance Committee <input type="checkbox"/> IT & Infrastructure Committee <input type="checkbox"/> HR Committee <input type="checkbox"/> Alumni Interaction Committee					02 Meetings/Year/Committee	⇒⇒⇒
3	Assurance for Vision and Mission of the Institute					Review & Assurance	⇒⇒⇒
4	Effective Implementation and Monitoring of the Institutional Perspective & Development Plan					Six Monthly Review	⇒⇒⇒
5	Decentralization and participative management in working and grievance redressal mechanism					Decentralized management	Increase in IT support Mechanism
6	Effective Management Information System					IT based Management Information System for selected modules	IT based Management Information System for all required modules
7	Providing Administrative & Financial Support for Quality Improvement strategies for: <input type="checkbox"/> Curriculum Development <input type="checkbox"/> Teaching & learning <input type="checkbox"/> Examination & Evaluation <input type="checkbox"/> Research & Development <input type="checkbox"/> Library, ICT and physical Infrastructure/Instrumentation <input type="checkbox"/> Human Resource Management <input type="checkbox"/> Industry Collaboration/Interaction <input type="checkbox"/> Admission of students					Providing as per proposal submitted by various departments & sections after evaluation of availability of funds	100% support

8	<p>Providing Administrative &amp; Financial Support for Implementation of e-governance in areas of following operations:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Planning &amp; Development</li> <li><input type="checkbox"/> Administration</li> <li><input type="checkbox"/> Finance &amp; Accounts</li> <li><input type="checkbox"/> Students admissions and support</li> <li><input type="checkbox"/> Examination</li> </ul>	Partial support	100% support
9	Providing Financial support for the participation of faculty, staff in Conference/workshop & membership of professional bodies	Providing for participation In conference/workshop	Provision for membership of professional bodies
10	Providing Administrative & Financial Support for Conduction of professional development/Administrative training programmes for teaching & non teaching staff	Providing for state level training programmes	Provision for national level programmes
11	Providing Financial support for Participation of faculty in professional development programmes, orientation programme, refresher course, short term course, FDP	Providing for participation in India	Provision for International participation
12	Faculty & Staff recruitment and hiring of various services required in administrative system	Inadequate	100% Adequacy to be achieved
13	Implementing Welfare scheme for faculty, teaching & non-teaching staff, and students	Partial support	100%
14	Use of Internal & External Financial audit	100%	100%
15	Review & publication of service rules, policies and procedures, functions of various bodies, recruitment and promotional policies.	Regularly	Regularly
16	Delegation of powers to Administrative Committees and Administrative Heads for taking administrative decisions	100%	100%
17	Delegation of Financial powers to the Heads of Departments and relevant in-charges	Partial	Up to Rs. 50,000/-
18	Show Transparency and availability of correct/unambiguous information in public domain	100%	Continued with online portal mechanism

19	Dissemination of the information about student, faculty and staff	100%	
20	Effective Budget Allocation, Utilization, and Public Accounting at Institute level	100%	
21	Availability of effective Security mechanism	Upto the appropriate level	IT based surveillance system
22	Initiatives for Environment control and sustainability	Upto the appropriate level	100% Implementation
23	Development of “Urban Green Zone” at institute of 30% land area	22% Available	Increase up to 30%



## B. Quality Assurance

Years	2018-19	2019-20	2020-21	2021-22	2022-23	Status	Intervention
Internal Quality Assurance: Conducting & Reviewing process through the following committee Audits in every Academic year							
1	<u>Conducting meetings of IQAC (Internal Quality Assurance Cell) in every quarter of Academic Year</u>					01/Quarter (04 / Year)	
2	Conducting regular meetings of Development cells of the Institute: <input type="checkbox"/> Academic Development Cell <input type="checkbox"/> Students Development Cell <input type="checkbox"/> Media Development Cell <input type="checkbox"/> International Affair cell					02/Quarter (08 Meetings /year)	02/Quarter (08 Meetings /year)
3	Administrative Audit in every Academic Year					01/Year	02/Year
4	<u>Academic Audit every Academic Year</u>					01/ Year	02/ Year
5	IT Audit					00/Year	01/Year
6	Environment Audit					01/Year	02/Year
7	Laboratory Audit					01/Year	02/Year
8	Infrastructure Audit					As per requirement	01/Year
9	Overall development of Institute through <u>360 degree feedback system-Structured</u> feedback system to collect and Analyse feedback collected from:- <input type="checkbox"/> <u>Students</u> <input type="checkbox"/> <u>Faculty</u> <input type="checkbox"/> <u>Employers</u> <input type="checkbox"/> <u>Alumni</u> <input type="checkbox"/> <u>Parents</u>					Feedback from: Students- 02/Sem. Faculty- 01/Sem. Employers- 01/Year Alumni- 01/Year Parents- 01/Year	Feedback from: Students- 02/Sem. Faculty- 01/Sem. Employers- 01/Year Alumni- 01/Year Parents- 01/Year

## External Quality Assurance

1	NBA Accreditation of UG & PG Courses	ME-ISD is Accredited and EE Accreditation expired in Sep, 2018. *All the UG courses accredited twice in past	NBA Accreditation of all offered eligible Courses will be
2	ISO Certification of Administrative Offices	NA	Every Year
3	Participation in NIRF	Not applied	Every Year
4	Participation in AISHE	Every Year	⇒⇒⇒
5	Participation in Swachh Campus Ranking	Every Year	⇒⇒⇒
6	Participation in Atal Ranking of Institutions on Innovation Achievements Framework (ARIIA)	Not applied	Every Year
7	Participation in CII Survey	Every Year	⇒⇒⇒
8	NAAC Accreditation	Accredited with B++ Grade in Cycle-1	Cycle-2: NAAC Accreditation [Target A+]
9	<u>Submission of AQAR to NAAC</u>	<u>Every Year</u>	⇒⇒⇒



## C. Curriculum Reforms

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	<u>Curriculum Design &amp; Development</u>					Twice/Year	Dynamically
2	Introduction of new courses focused on employability/entrepreneurship/skill development					Introduced as open electives	Technology Based
3	Revision of Syllabus as per current Societal & Industrial Need					Twice/Year by conducting syllabus revision workshops	Continuous Improvement
4	Industry & alumni involvement in the program design and Curriculum					Direct & Indirect	⇒⇒⇒
5	A Balanced structured Curriculum for attaining the Program Outcomes (POs) & Program Specific Outcomes (PSOs)					Implemented from 2017-18	Continues Improvement
6	<u>Implementation of Academic Flexibility through Flexible curriculum System</u>					Implemented from 2017-18	Continues improvement
7	Curriculum Enrichment via audit courses					Implemented w.e.f. 2018-19	Dynamically
8	Implementation of Feedback System to collect feedback from Students, Teachers, Employer & Parents for Curriculum development					Through Online feedback mechanism	Increase in frequency
9	Conduction Value-added courses to impart transferable and life skills					<u>16 Value Added Courses are launched in 2018</u>	Need Based
10	Provision of Internship (in-house/Industrial) in every academic year of study					<u>In-House Summer Internship Program started in 2017-18 for I year (42 Modules) &amp; Industrial Internship is mandatory for II &amp; III Year students</u>	⇒⇒⇒
11	Encouraging for Industrial Projects to solve the real time Industrial problems					Partial Financial Support for Industrial and Interdisciplinary projects	All Deserving

12	<p>Review &amp; Corrective measures on implementation of OBE:</p> <ul style="list-style-type: none"> <li>❑ Mapping courses and the POs &amp; PSOs.</li> <li>❑ Framing COs for every course.</li> <li>❑ Availability of COs embedded in the syllabi.</li> <li>❑ Course Articulation Matrix (Mapping of CLOs with COs) table.</li> <li>❑ Program Articulation Matrix (Mapping of CLOs with POs) tables.</li> <li>❑ Development of assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based.</li> <li>❑ Attainment of Course Outcomes of all courses with respect to set attainment levels.</li> <li>❑ Development of assessment tools and processes used for assessing the attainment of each of the POs &amp; PSOs.</li> <li>❑ Evaluation of each PO &amp; PSO.</li> <li>❑ Review and improvement in attainment levels of Cos, Pos &amp; PEOs.</li> </ul>	<p>The Cos, Pos and PSOs are prepared and revised as per NBA guidelines.</p> <p>The attainment level of each COs is evaluated and corrective measures are taken for improvement in attainment levels.</p>	Continuous Improvement
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## D. Teaching Learning & Evaluation Process

Years	2018-19	2019-20	2020-21	2021-22	2022-23	Status	Intervention
<b>Academic Reforms : Adapting Cafeteria Approach against the existing Rice-Plate Approach</b>							
1	Adherence to academic Calendar					100% adherence to academic calendar	⇌
2	Learning Management System: Effective teaching with the use of e-learning resources, ICT tools & Institute <u>MOODLE, MOOCS, SWAYAM</u>					Up to 80%	100%
3	Teaching-learning through ICT enabled classrooms & Smart Class rooms					60% classrooms are effective	100%
4	Pedagogical initiatives (real life examples, collaborative learning, ICT supported learning, interactive classrooms, e-resources & latest techniques)					Up to the level of 70%	100%
5	Effective Students mentoring system					Scheme is very effective since 2016	Enhance Effectiveness
6	Implementation of effective support system for weak students & to encourage bright students (identification, action taken, impact observed)					Up to 70%	100%
7	Student's feedback on teaching process and Corrective measures.					Online feedback system & actions accordingly. 02/Sem.	Enhance Effectiveness
9	Flexible Curriculum Scheme: - Core Courses - Electives and Open Elective Courses - Inter-Disciplinary Courses - Credit Transfer Provision for Online Courses including courses - of foreign Universities - Industry training/Course Crediting - Add-on/Audit Course Crediting etc.					<u>Implemented w.e.f 2017-18</u>	Enhance Effectiveness

4	Assuring Quality of assignment and its relevance to COs (to promote self-learning, survey of contents from multiple sources, assignment evaluation and feedback to the students, mapping with the COs)	Implemented	
5	Question paper analysis based on HOT & LOT and gap analysis & corrective measures.	Implemented	
6	Developing mechanism for students grievances about evaluation	Manual System	Online System
7	Digitization of Evaluation Process	Online Evaluation System has started w.e.f. 2017-18 as a pilot project & started as complete online evaluation from 2018-19	Complete Digitization
8	Digital Examination Process	Objective	Subjective
10	Innovative practices for Identification of students projects and allocation	Under Progress	100% Implementation
11	Classification and relevance of the projects and their contribution towards attainment of POs and PSOs	Under Progress	100% Implementation
12	Establishing Industry supported laboratories		SKF, IBM
13	Industry involvement in partial delivery of any regular courses for students		Under Progress



## Examination Reform & Evaluation process

1	Implementing effective Process of internal semester question paper setting and evaluation (effective process of question paper setting, model answers, evaluation and its compliance)	Implemented	
2	Implementing effective system to ensure the questions from outcome/learning levels perspective	Implemented	
3	Implementing effective system to ensure evidence of COs coverage in class test/mid-term test.	Implemented	

E. Research, Development, Innovations & Professional practices							
Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Providing research grant/ Seed money to faculty for innovative research					Rs. 2,00,000/- Seed Money	Rs. 5,00,000/-
2	Recognition & support to faculty for national/international fellowship for advanced studies/research					Yes	Enhancement
3	Recognition & support to faculty for receiving Research & development funds from various agencies, industries and other organizations (minor, Major, interdisciplinary, industry supported projects)					Yes	Enhancement
4	Support for Innovative Students projects					Partially	Fully Deserving
5	Support for International projects taken by faculty & students.					NA	Implementation
6	Conduction of Workshop and seminar on IPR & Industry-Academia Innovative Practices					03/Year	05/ Year
7	Recognition & awards for innovation by faculty/research scholars/students					Yes	⇨
8	Development of Incubation Centre					In-Process	Fully supported including Financial Support
9	Promotion for Start-up incubated on campus to commercialise research innovations annually					In-Process	Fully supported including Financial Support
10	Increase in number of Ph.D. awarded & Admission					Awarded-43 Admitted: 60	Awarded: 103 Admitted: 100+

11	Increase in Research Publication in SCI/SCOPUS indexed journals	84	200+
12	Increase in Books and Chapters in edited volumes	Books: 11 Chapters: 29	Books: 25 Chapters: 55
13	Increase in Publication of research papers in national and international Journals & conference proceedings	National: 130 International:347 Conference Proceedings:104	National: 160 International: 550+ Conference Proceedings:200+
14	Increase in Quality of publication-Citation Index of Faculty Members ( Citations, h-index, h-10 index & Scopus Index)	Citations: 13135 h-index: 322 h-10 index: 294 Scopus index: 56	10% increase per year
15	Increase in Patents applied/awarded/published	Awarded/ Published: 0 Applied: 05	Awarded/ Published: 05 Applied: 10
16	Support for Faculty Participating in Seminar / Conferences	100% Support	100%
17	Increase in Revenue generation through Consultancy & Industrial training	5%	8%
18	Linkage with Institutes/industries for internship, on-the job training, project work, sharing of research facilities along with Faculty & Students exchange program	Initiatives taken	Effective implementation
19	Signing MoUs with institutions of national, international importance, other institutions, industries, corporate houses.	25 MOUs	50+ MOUs
20	Motivating research and development leading to technologies with immediate societal value (water, energy, housing, healthcare, education, etc.)	Initiatives taken by framing research groups of faculty	Effective implementation.
21	Establishing research centres of excellence	NA	01 /Year

## F. Human Resources Empowerment

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Appointment of full time Quality teachers					Regular:83 NPIU: 107 Contract:45	Regular: 170 Contract: 80
2	Provision of Visiting /Adjunct/Emeritus faculty etc.					06	16
3	Recognition and appreciation for the faculty on receiving of fellowships, awards, recognition from Govt or recognized bodies at state/national/International level					Implemented	⇒⇒⇒
4	Implementing Faculty Performance Appraisal and Development System					Implemented	⇒⇒⇒
5	Providing API based promotion and rewards.					Implemented	Frequency Enhancement
6	Rewarding high-achieving faculty members once every year.					Implemented	⇒⇒⇒
7	Promoting Faculty participation in Faculty development /training activities /STTPs					100% Support	⇒⇒⇒
9	Providing Support to faculty members to obtain higher qualification					Implemented	⇒⇒⇒
10	Recognition and support to faculty for participation in following activities: Sponsored Research/Product Development/Research laboratories/Instructional materials/Working models/charts/monograms etc./Consultancy (From Industry).					Implemented	⇒⇒⇒
11	Providing Training support to technical & administrative staff for participation in staff development activities.					100%	100%
12	Motivation & support to achieve higher qualification during service.					Adequate	Increase in Numbers

## G. Technical & Internal Support System

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Implementing Simplify systems and processes with the use of digitization & IMS system.					Up to 80%	100% implementation
2	Implementing Use of IT support for purchase, maintenance and administration.					Partial	Complete Support
3	Implement new recruitment/engagement rules to attract qualified staff at various levels.					As per Govt. Norms	In Addition R&D Support for deserving
4	Conducting annual satisfaction survey for services improvement.					Implemented	Increase in Parameters & Effectiveness
5	Organizing Orientation and training for Technical & Administrative staff					Organising	Frequency will be increased
6	Development of online complaint systems.					Manual	Online
7	Organizing Orientation and mentorship programme for new faculty members.					Partially Implemented	Effective Conduction
8	Reducing in average processing times for various administrative issues/services.					Up to the level of 80%	100% Satisfaction
9	Development of online Tracking system for complaint redressal.					Partial	100%
10	Appointment of Technical manpower for program-specific curriculum					Implemented	Numbers will be increased
11	Maintenance and overall ambience in Laboratories.					National Level	International Level
12	Safety measures in laboratories					80%	100% as per standards

## H. Students Support & Progression

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Interventions
1	Providing scholarship and financial support from institute and other sources.					Limited	Numbers will be increased
2	Conducting Capability enhancement & Development scheme-Soft skill development, remedial coaching, language lab, bridge courses, yoga, Meditation, personal counselling and mentoring					100% implemented	100% Effectiveness
3	Guidance for competitive exams					Full Support	Increase in Participations
4	Organizing Induction & Orientation programs for all UG & PG students.					In-Place	Continued
5	Students grievances redressal system					In-Place	Minimum Grievances
6	Prevention of sexual harassment and ragging					Measures are in-place	Reducing complaints to Zero
7	Support for Career Counselling, Placement, Students progression for higher education & entrepreneurship					Up to 80%	100%
8	Increase in Students qualifying in state/national/international level examination (GATE/CAT/GRE/TOFEL/Civil Services/State Govt. Services.					30% Approx	60%
9	Organizing Sports and cultural activities/competitions					Yes	Increase in numbers
10	Enhancing Participation of students in cultural activities/competitions at national & international level					Adequate	Increase in No.s




11rl	Involvement of Students representations in academic & administrative bodies/committees of the Institute	IQAC, T&P Cell, OBE, Anti-Ragging & Grievances Redressal committee, Woman Grievances, SWAYAM etc.	Participation will be increased
12	Providing support and counselling through Professional counsellor and medical practitioner	Full Support	100% Effective
13	Conducting annual student satisfaction survey	Adequate	Parameters & Effectiveness will be increased
14	Providing Adequate facilities for PhD students & Special training for PhD students for Teaching and Entrepreneurship	Adequate	Industry connect
15	Promotion and support for learning by doing	At initial stage	100% Effective
16	Supervised internships for students in industry for longer duration	Will be effective from 2020 (Already Approved)	More Industry will be connected for the same
17	Providing Self – Learning facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc.	Adequate	Increase Effectiveness via Self Developed e-learning materials
18	Conduction of Co-curricular and Extracurricular Activities through sports and cultural facilities, NCC, NSS and <u>other clubs</u> , Annual students activities	Adequate	National & International Level
19	Opening Professional societies / chapters and organizing engineering events	12	22
20	Publication of technical magazines, newsletters, etc.	Half Yearly (at Dept & Institute level)	Quarterly

I. Infrastructure, learning Resources, Facilities							
Years	2018-19	2019-20	2020-21	2021-22	2022-23	Status	Intervention
Improvement /up-gradation & increase in existing facilities							
1	Modernization and expansion of Class rooms, Laboratories, Seminar halls, smart classrooms, & equipments.					70%	100%
2	Automation of Library (integrated Library Management System)					70%	100%
3	Automation/digitization of examination, evaluation system					60%	100%
4	Establishment of “MOOC Development Centre” for e-contents development by teachers for Institutional Online Platform					Initiative Taken	100%
5	Up-gradation of LMA (Learning Management System)/MOODLE					Under progress	Continuous up-gradation
6	Up-gradation in IT Infrastructure (Computer, Internet, Browsing Centre, Computer centres, Departments CC, Available band width					Under Progress	Continuous up-gradation
7	Up-gradation of all buildings and their surroundings to global standards in cleanliness and safety					Adequate	As per Global Standard
8	Creating comfortable accommodation to all students and scholars in hostel					Accommodating 600 Students	1000
9	Provide well-maintained and accessible sports facilities for all major sports					Partial	Full facilities

To be Develop:			
1	Development of Additional Academic Block	--	Academic block for new UG & PG programmes/ increase in intake
2	Development of Auditorium for Academic Activities	--	Auditorium with capacity of 1000 Students
3	Development of Sport Complex	--	As per the standards
4	Provide sufficient well-maintained quarters for the faculty and staff	Limited	Adequate
5	Development of "Continuing Education Program Centre" for organizing various faculty & Staff Development activities	--	Dedicated faculty & Staff Development Centre
6	Project laboratory/Facilities for students and faculty	Limited	Adequate
7	Development of Hostels for Male and Female Students	Limited	Adequate

## J. Engagement with Alumni, Industry & Society

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Establishment of an “Alumni Development Cell” at the Institute to support alumni visits, activities and engagement.					Adequate	Effective Development
2	Development of alumni support system for continued learning and career improvement.					Partial	Full Development
3	Development of “Online Learning Modules” for Alumni for Lifelong learning.					Under Process	Full Development
4	Alumni interaction through: <ul style="list-style-type: none"> <li><input type="checkbox"/> Interaction between alumni and students,</li> <li><input type="checkbox"/> Involvement of alumni for students mentoring,</li> <li><input type="checkbox"/> Interaction between alumni and faculty,</li> <li><input type="checkbox"/> Alumni members in Departmental BOS for curriculum development,</li> <li><input type="checkbox"/> Alumni linkage for student placements and internships,</li> <li><input type="checkbox"/> Alumni representation in IIIC, IQAC and BOG of the Institute.</li> <li><input type="checkbox"/> Enhancing the innovation ecosystem</li> <li><input type="checkbox"/> Enhance alumni interaction during technical, cultural and sports activities organised by Institute.</li> </ul>					Partial	Effective Interaction
5	Engagement of alumni as adjunct faculty/visiting faculty.					Limited	Increase in Number
6	Conduction of courses/workshops/networking events for alumni.					Limited	Increase in Frequency
7	Development of online portal on Institute website to promote engagement between alumni, students and faculty members.					Portal Developed	Engagement through portal will be increased
8	Meetings/activities organized by Alumni Association					Adequate	Increase in Frequency
9	Development of “Extension & Outreach Cell” to explore the support and services towards community.					Through Different Committees	Effective Development
10	Effective use of “Business Development Centre” for Industry Linkage, start-up and incubation strengthening.					Established	Increase in Effectiveness

11	Motivating Joint Intellectual Property (IP) commercialisation with industries.	Partial	Full Support
12	Effective use of entrepreneurship development cell in the institute.	Adequate	Increase in Activities
13	Development of dedicated cell for research on societal problems.	Under Process	Development of Research Group
14	Enhancing interaction with industries, educational and research organizations in the region for versatile exposure to students and faculty.	Implemented	
15	Conduction of joint workshops/activities with govt. & NGO for students and local community.	Limited	Increase in Number
16	Conduction of joint research, workshop & Training programs with industries.	Limited	Increase in Number
17	Organising Public lectures/colloquia/competitions on global issues.	Limited	Increase in Number
18	Enhancing faculty engagement with industries.	Limited	Enhance through research & Development Activities
19	Conduction of training programs for Govt. staff/industry personals and other organizations.	Adequate	Increase in Activities
20	Conduction of students Competitions on city and state problems	<u>Conducting through clubs &amp; societies</u>	Level & Quality Enhancement
21	Joint conduction of sport and cultural activities with other institutions and organizations.	Adequate	Increase in Activities
22	Establishment of MITS foundation to contribute to technical education and to address various social issues including development of financial resources	Under Progress	Effective Development

K. Diversity, Outreach & Extension							
Years	2018-19	2019-20	2020-21	2021-22	2022-23	Status	Intervention
1	Implementation of Equity action plan to ensure the support for: <ul style="list-style-type: none"> <li>- Students from other States/ Countries (Region Diversity)</li> <li>- Women (Women Diversity)</li> <li>- Economically and Socially Challenged Students</li> <li>- Physically Challenged Students</li> </ul>					EAP Implemented	Effective Implementation
2	Increase the total number of exchange scholars					Limited	Increase in Number
3	Increase the number of joint supervision and joint Ph.D. programmes with institute of other states					Limited	Adequate(01 per faculty)
4	Conduction of Sensitization programs for Institutional Values and Social Responsibilities & Gender equity					02/Year	04/Year
5	Providing Friendly environment for Differently abled (Divyangjan) via providing Physical facilities, lift, ramp/rails, rest rooms.					Adequate	100% Support
6	Development of Special skill for differently abled students					-	100% support for skill development
7	Inclusion and situations (Initiatives taken to address locational advantages and disadvantages					Limited	Effective Enhancement
8	Conducting Awareness programs on Human values, professional ethics , universal values and ethics					02/Year	04/Year
9	Establishment of Diversity Cell to address needs of diverse individuals/groups to ensure fairness					Through Various Committee	Effectiveness through development of cell
10	Increasing accommodation for married women faculty & Ph.D. students					Limited	Adequate
11	Conducting Number of outreach programs to attract female students					01/Year	02/Year

## L. Advanced frontiers of knowledge & Educational Areas

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Establish mechanism to support high impact research through an annual call for proposals and a process for identification of thrust areas.					Implemented w.e.f 2017-18	All Deserving
2	Encourage formation of multi-disciplinary research centres in high potential areas.					Developed	Effectiveness Enhancement with induction of students with faculty of other institute
3	Proactive and flexible mechanisms to attract high quality faculty and researchers					Under Process	Effectiveness Enhancement
4	Create research groups to attract students for PhD programme.					Implemented w.e.f 2018-19	Increase in numbers
5	Encourage and support advanced research conferences at the Institute.					02/Year	04/Year
6	Enable PhD student exchanges with partner international universities.					Under process	Effective Implementation
7	Enhance facilities and working environment for PhDs and post doctoral researchers.					Adequate Level	As per Global Standard
8	Enhancing Placement activities and dedicated PlaceComm Cell to promote and enhance PG & PhD placements.					Adequate Level	Effectiveness Enhancement



9	Increased publications per faculty, citations per faculty, citations per paper	Adequate	As per NIRF
10	Increase in annual research funding.	3.28%	7%
11	Initiate Joint Academic Courses in Medicine/Healthcare/Agriculture/physical education in collaboration with other institutions.	Under Progress	Implemented
12	Introduction of New UG & PG programmes	Under Progress(PG course in Product design is approved by AICTE)	UG Courses: <input type="checkbox"/> Robotics <input type="checkbox"/> Design <input type="checkbox"/> Automation PG Courses: <input type="checkbox"/> Embedded System <input type="checkbox"/> Thermal Systems & Design <input type="checkbox"/> Product Design <input type="checkbox"/> Industrial Safety <input type="checkbox"/> IoT <input type="checkbox"/> Artificial Intelligence <input type="checkbox"/> Vehicle to Grid(V2G and G2V) <input type="checkbox"/> Smart & Intelligence System
13	Introduction of New “Rural Skill Development Program”	Initial stage	Implemented
14	Introduction of New Skill Development programmes.	Under Progress(Approved by AICTE)	B.VOC Courses <input type="checkbox"/> Automotive Manufacturing <input type="checkbox"/> Multimedia & Graphics <input type="checkbox"/> Medical Imaging <input type="checkbox"/> Travel & Tourism

M. Internationalization							
Years	2018-19	2019-20	2020-21	2021-22	2022-23	Status	Intervention
1	Increase in the activities of International affairs cell to attract international students for admissions					Initiative Taken	Enhancement in Effectiveness
2	Enhance Institute information availability and publicity in target countries to attract students					Limited	Fully Developed System
3	Development of linkage with international universities					At Initial Stage	Adequate
4	Facilitate student exchange and joint-PhD programmes					--	Implementation of Student Exchange Program
5	Attract international faculty and students on short term engagement in conferences, GIAN courses & Conferences					Partial	Increase in Frequency
6	Attract international faculty on long term engagement in research and development activities					Limited	Effective Engagement
7	Increase percentage of International students (exchange students and regular students)					--	1% per Year
8	MOU with Central University of Florida					Under Progress	Effective Collaboration for Micro level Activities

## N. Broaden funding base

Year	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Status	Intervention
1	Increase internal revenue through masters & Ph.D. level courses, executive programmes and professional courses.					5%	10%
2	Increase research & Development grant from Central & State Government.					3.28%	7%
3	Increase research projects from industry					Limited	1 Per Program
4	Increase internal revenues via consultancy and industry R&D receipts					1%	5%
5	Cultivating Industry linkages to attract corporate social responsibility (CSR) funding.					Initiative Taken	Development of Effective System
6	Developing approach to donations and for enhanced engagement with stake holders.					Initiative Taken	Development of Effective System

# Financial Interventions

Code	Parameter	Financial Interventions						Purpose
		2018-19 (Lakhs)	2019-20 (Lakhs)	2020-21 (Lakhs)	2021-22 (Lakhs)	2022-23 (Lakhs)	Total (Lakhs)	
A	Governance, Leadership & Management	50	50	50	30	30	210	<input type="checkbox"/> Financial Support for Quality Improvement Strategies <input type="checkbox"/> Financial support for welfare schemes of faculty & Staff <input type="checkbox"/> Meetings
B	Quality Assurance	15	15	10	10	10	60	<input type="checkbox"/> Accreditation Fees <input type="checkbox"/> Workshop Conduction on Quality Issues <input type="checkbox"/> Meetings
C	Curriculum Reform	05	05	05	05	05	25	<input type="checkbox"/> Workshop Conduction on curriculum reform <input type="checkbox"/> Support for Industrial Projects <input type="checkbox"/> Support for internships <input type="checkbox"/> Meetings
D	Teaching Learning & Evaluation Process	30	30	30	10	10	110	<input type="checkbox"/> Support for ICT, e-learning <input type="checkbox"/> Industrial tours <input type="checkbox"/> Mentoring & Remedial Support <input type="checkbox"/> Summer training conduction <input type="checkbox"/> Examination reforms & digitization

E	Research, Development, Innovations & Professional practices	15	15	15	10	10	65	<input type="checkbox"/> Seed grant for research <input type="checkbox"/> Students projects <input type="checkbox"/> Workshop conduction on IPR & Patent <input type="checkbox"/> Development of incubation Centre <input type="checkbox"/> Product Development, IPR & Patent <input type="checkbox"/> Startup support <input type="checkbox"/> Support for faculty & Students exchange
F	Human Resources Empowerment	3301	3961	4753	5703	6843	24561	<input type="checkbox"/> Expenditure on Salary & Services <input type="checkbox"/> Support for faculty & staff Development activities <input type="checkbox"/> Higher qualification support
G	Technical & Internal Support system	75	88	115	160	190	628	<input type="checkbox"/> Digitization & IT support <input type="checkbox"/> Maintenance, up-gradation & safety measures in laboratories & central facility
H	Students Support & Progression	30	30	30	20	20	130	<input type="checkbox"/> Scholarships & Financial Support to students <input type="checkbox"/> Capacity Development of Students <input type="checkbox"/> GATE, Employability skill training & Career counselling <input type="checkbox"/> Support for professional development, sports, cultural activities

I	Infrastructure, learning Resources, Facilities	1450	1250	1150	1150	700	5700	<input type="checkbox"/> Academic Block <input type="checkbox"/> Auditorium & CEP Centre <input type="checkbox"/> Sport Complex <input type="checkbox"/> Smart Class Rooms <input type="checkbox"/> Laboratory & Central Facility Development
J	Engagement with alumni, Industry & society	10	10	10	05	05	40	<input type="checkbox"/> Development of online Learning Modules for lifelong learning <input type="checkbox"/> Conduction of Meetings/activities/Networking Events for alumni <input type="checkbox"/> Business development activities <input type="checkbox"/> Conduction of competitions, Industry conclave, workshops <input type="checkbox"/> Extension & Outreach cell activities
K	Diversity, Outreach & Extension	05	10	10	05	05	35	<input type="checkbox"/> Conduction of extension activities <input type="checkbox"/> Provisions for differently abled
L	Advanced frontiers of knowledge & Educational Areas	10	10	15	16	17	68	<input type="checkbox"/> Support for high impact research for PG & Ph.D. students <input type="checkbox"/> Introduction of new skill based courses <input type="checkbox"/> Joint / collaborative activities to promote research on societal needs.
M	Internationalization	15	15	10	10	10	60	<input type="checkbox"/> Faculty & students exchange <input type="checkbox"/> Travel support for research & collaborative activities
N	Broaden funding base	05	05	05	05	05	25	<input type="checkbox"/> Expenditure on linkages, collaboration, visits etc.
<b>Total</b>		<b>5016</b>	<b>5494</b>	<b>6208</b>	<b>7139</b>	<b>7860</b>	<b>31717</b>	

# FUND REQUIREMENT

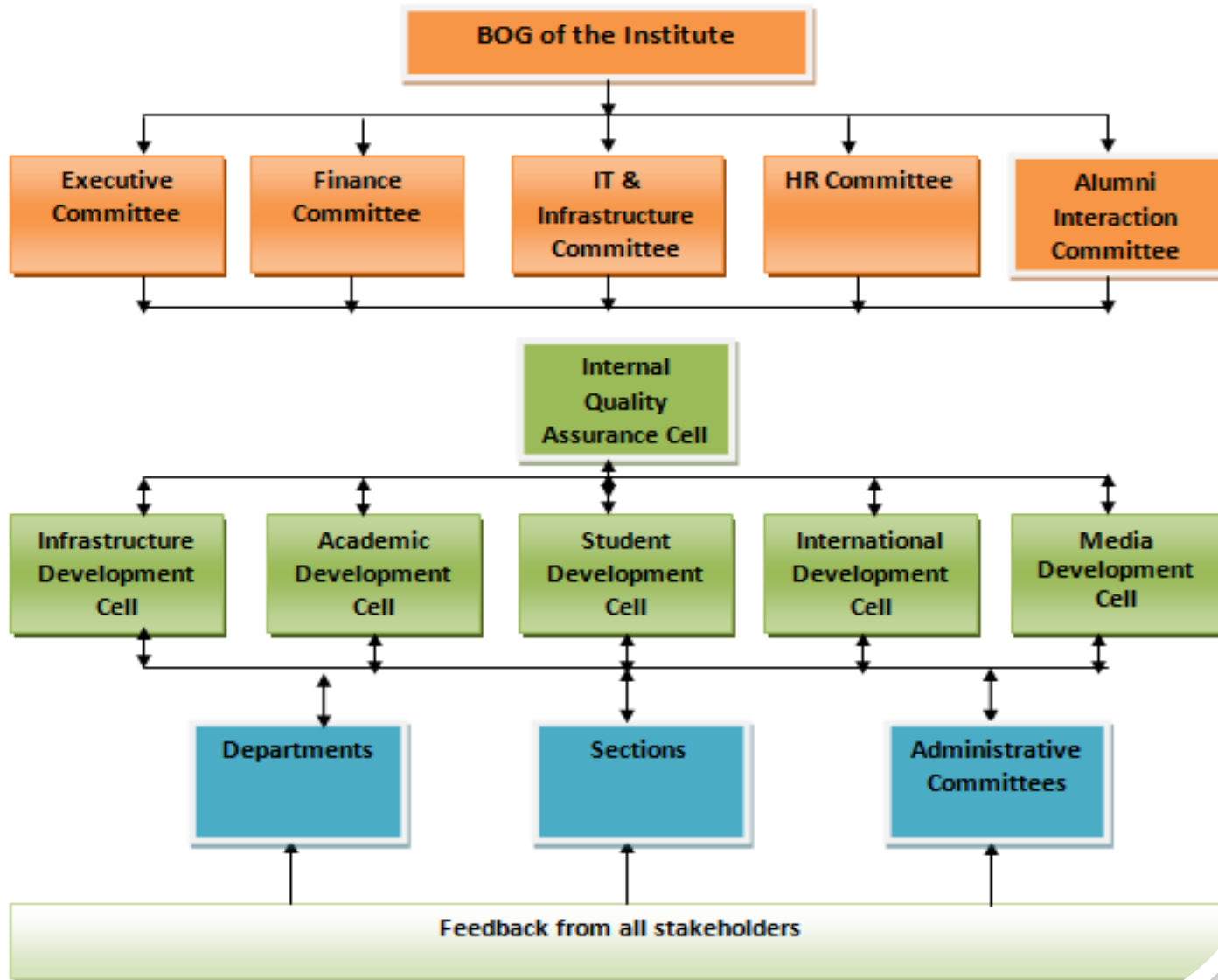
Expenditure Head		Fund Requirement in Financial Year					
		2018-19 (Lakhs)	2019-20 (Lakhs)	2020-21 (Lakhs)	2021-22 (Lakhs)	2022-23 (Lakhs)	<b>Total</b>
Infrastruct ure Developme nt	Academic Block	400	500	300	-	-	1200
	Auditorium & CEP Centre	-	-	200	800	400	1400
	Sport Complex	-	-	200	-	-	200
	Hostel	400	400	100	-	-	900
	Smart Class Rooms (24)	350	250	250	250	200	1300
	Laboratory & Central Facility Development	300	100	100	100	100	700
Refurbishment & Maintenance of existing Infrastructure		75	75	75	75	75	375
Up-gradation & Procurement of Learning Resources, Digitization and IT support facilities		50	50	50	25	25	200
Academic Activities (Faculty & Students)		50	50	50	30	30	210
Expenditure on Salary & Services		3301	3961	4753	5703	6843	24561
Incremental Operating Cost		90	108	130	156	187	671
<b>Total</b>		<b>5016</b>	<b>5494</b>	<b>6208</b>	<b>7139</b>	<b>7860</b>	<b>31717</b>



# PROJECTION OF FUND

Fund Sources	Projection of fund in Financial Year					
	2018-19 (Lakhs)	2019-20 (Lakhs)	2020-21 (Lakhs)	2021-22 (Lakhs)	2022-23 (Lakhs)	Total
State Govt.	626	626	626	626	626	<b>3130</b>
Central Agencies (MHRD/TEQIP/UGC / AICTE/DST/CSIR/et c)	600	600	300	100	100	<b>1700</b>
Tuition Fee	2099	2099	2099	2099	2099	<b>10495</b>
IRG (Testing, Consultancy, & Development Fee)	121	123	125	128	130	<b>627</b>
Corpus Fund	127	135	143	152	161	<b>718</b>
<b>Total (A)</b>	<b>3573</b>	<b>3583</b>	<b>3293</b>	<b>3105</b>	<b>3116</b>	<b>16670</b>
<b>Proposed Expenditure (B)</b>	<b>5016</b>	<b>5494</b>	<b>6208</b>	<b>7139</b>	<b>7860</b>	<b>31717</b>
<b>Deficit/ surplus (A-B)</b>	<b>-1443</b>	<b>-1911</b>	<b>-2915</b>	<b>-4034</b>	<b>-4744</b>	<b>-15047</b>

# Monitoring & Review Mechanism



## O. Monitoring & Evaluation

Year	Existing	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Monitoring & Corrective Measures on following parameters for improvement						
1	Transition rate of students (Without Backlog from first year to second year)					
	71.12%	73%	75%	77%	79%	81%
2	Pass percentage of students					
	93%	94%	95%	96%	97%	98%
3	COs, POs and PSOs attainment levels					
	60%	63%	65%	67%	70%	72%
4	Placement numbers, quality, core hiring industry and pay packages					
	65% Placement Average Package: Rs. 3,70,000/-	67% Placement Average Package: Rs. 4,00,000/-	69% Placement Average Package: Rs. 4,50,000/-	71% Placement Average Package: Rs. 4,70,000/-	73% Placement Average Package: Rs. 5,00,000/-	75% Placement Average Package: Rs. 5,20,000/-
5	Higher Studies admissions for pursuing PhD. in premier institutions					
	2%	3%	4%	5%	6%	7%
6	Number of students admissions at UG, PG & Ph.D. level.					
	UG: 97.9%  PG: 85% of offered courses  Ph.D.: 28	UG: 100%  PG: 90% of offered courses  Ph.D.: 32	UG: 100%  PG: 95% of offered courses  Ph.D.: 37	UG: 100%  PG: 100% of offered courses  Ph.D.: 42	UG: 100%  PG: 100% of offered courses  Ph.D.: 47	UG: 100%  PG: 100% of offered courses  Ph.D.: 52

7	Quality of students admitted to the program					
	Improvement in JEE Ranks					
8	Number of total Quality research papers					
	SCI/Scopus: 84	SCI/Scopus: 120	SCI/Scopus: 140	SCI/Scopus: 160	SCI/Scopus: 180	SCI/Scopus: 200
9	Increase in number of New UG & PG Program					
	01	01	01	01	01	02
10	Number of research, consultancy projects					
	05	07	10	12	14	16
11	Development of offline & online course material					
	Under Progress	25	30	35	40	45
12	Innovations and product commercialization					
	01	02	03	04	05	06
13	IPR & Patents					
	03	05	07	09	11	13
14	Institute Ranking & Recognitions (NIRF)					
	Applying	Under 100	Under 100	Under 100	Under 90	Under 90
15	NBA Accreditation					
	UG: 01 PG: 01	UG: 04 PG: 01	UG: 06 PG: 03	UG: 07 PG: 05	UG: 08 PG: 06	UG: 10 PG: 07
16	NAAC Accreditation					
	B++ Grade	B++ Grade	A+ Grade	A+ Grade	A+ Grade	A+ Grade

**THANK YOU**

# VIDEOS

- College video
- Internship Video