



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY

**RAU PITHAMPUR ROAD, OPPOSITE INDIAN INSTITUTE OF MANAGEMENT
IIM VILLAGE-DEHRI, TEHSIL -INDORE**

453331

<https://iist.indoreinstitute.com>

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NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

September 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Indore Institute of Science & Technology (IIST) was established in the year 2003. Today the institute is amongst the Top 5 Engineering Colleges of Central India and is situated Opposite IIM Indore in the rural area of Indore District. The Institute is approved by AICTE, New Delhi, and affiliated to RGPV Bhopal offering Bachelor's degree in CS, IT, EC, AIML, Civil, Chemical, and Mechanical Engineering, and a Master's Degree in CS, Machine Design, and Digital Communication. In the year 2016, Department CSE and ECE are accredited to NBA.

Indore Institute of Science and Technology, Indore envisions an all-inclusive growth of students i.e. holistic development to attain Intelligence-Emotional-Social-Happiness-Spiritual Quotient in an individual, along with their goals of academic excellence. IIST is committed to enhancing the employability Quotient of the students with Holistic Development. Working towards this objective, IIST introduced the concept of “*Samagra Samutkarsh Yojana (SSY)*”. Institute staunchly believe in preparing the students in such a way that whilst meeting the expectations of the outer world, they are prepped to take care of their inner selves too which includes all three spheres i.e. body, mind and soul.

SSY aims at imparting skill-based, project, and task-based education in such a way that attains the academic and industry 4.0 requirements while bringing the feeling of tranquility, harmony, and blissfulness. At IIST, the students are provided with fair opportunities, environments, and spaces that help them unravel their innate abilities. The practices of Skills Improvement Groups (SIGs), syndicate system, Institute-Industrial Collaborations, Clubs, Career Development Cell, Focused Placements, and empathetic Financial Assistance Schemes cushioned with one-to-one interaction of students with the Director General and easiest accessibility to him have been few of our initiatives in the same direction.

IIST boasts of excellent academic achievement by imparting quality education and has all state-of-the-art facilities like an e-library, sports complex, ultramodern canteen, excellent transport, and a lush green campus.

IIST is also associated with IITs like IIT Bombay for e-yantra Robotics Lab and IIT Delhi for Virtual Lab. The Institute also has good Industry-Academia tie-ups like the AWS Academy, RedHat Academy, Microsoft Imagine Academy, MSME, etc. to bridge the gap between the requirements of the industry and the curriculum, through National Certificate courses.

Vision

- To be a nationally recognized institution of excellence in technical education and produce competent professionals capable of making a valuable contribution to society.

Technological excellence and competent professionals capable of making a valuable contribution to society are the two key parameters in the vision statement as perceived by the institution.

Technological Excellence

The main aim of IIST is to enhance the Employability Quotient of the Students along with Holistic Development. Towards this, IIST has dedicated Special Interest Groups / Skill Improvement Groups on emerging technologies like Data Analytics, Cloud Computing, Artificial Intelligence, Internet of Things, Robotics, Mechatronics, Sustainable Development, etc. These SIGs focus on the capacity building of the faculty and students and enable them to take up the activities related to training, research, and development in emerging fields. IIST also provides coding competency and has tie-ups with various cloud-based platforms like AWS Academy, Skill racks, Code-chef, Git hub etc. For inculcating a technical environment, IIST conducts various technical events and also promotes students to participate in national and international events and showcase their technical skills.

Competent professionals Capable of making a valuable contribution to society

A competent professional is capable of making a valuable contribution to society through providing solutions for day-to-day problems, societal issues, and industrial problems. IIST provides solutions through various events like Smart India Hackathon, Toycathon, and eYantra Robotics Competition, etc and Institute also skill-up coding competency of the students through various associations and training.

IIST promotes the SIH so that students of IIST contribute to society by providing solutions for problem statements. IIST also supports Participation in the National and International Coding Competitions, Technical Competitions, etc to solve social problems. In the last three years, the IIST student team has marked its place in SIH Final, and in the year 2020-21, two teams won the final also.

Many Green initiatives have been initiated and practiced under Green Waves Club as a movement to conserve nature at the campus and to inculcate a sense of responsibility towards Mother Nature among students and all the staff members. The institute promotes regular engagement of faculty, students, and staff with the neighborhood community for their holistic development and sustained community development.

Mission

- To promote academic growth by offering state-of-the-art undergraduate and postgraduate programs.

- To undertake collaborative projects which offer opportunities for interaction with academia and industry.
- To develop intellectually capable human potential who are creative, ethical, and gifted leaders.

The mission statement spells out the needs of the society in explicit terms, namely competitive technology and holistic development of the individual to accomplish the vision of the institution.

In the year 2017-2018 institute was taken over by Agarwal Group, New Delhi under the supervision and new visionary leadership of Hon'ble Shri Arun S. Bhatnagar, who is a Senior Bureaucrat (IRS 1983 batch) with an overall experience of 42 Years, retired as Principal Commissioner Income Tax to promote technical education with Holistic development.

Introduction of a new program based on Industry 4.0 requirement

Institute introduced two new programs in B. Tech, first - Artificial Intelligence and Machine Learning and second – CSE (IoT, Cyber Security including blockchain Technology) based on the emerging area in the last two years.

Interaction with Academia and Industry for Collaborative work / Startup

IIST is streamlining and strengthening the innovation and entrepreneurial ecosystem in campus and will be instrumental in leveraging the potential of science, student's creative problem solving and entrepreneurial mindset, and promoting a strong intra and inter-institutional partnerships with different stakeholders. For this we have **Institute Innovation Council (IIC), Innovation Startup Policy (NISP), IPR Cell, EDC Cell, Incubation Center, Technical Clubs** and Participation in NIRF ranking, and ARIIA Ranking.

IIST has been continuously working on **Industry-Academia tie-ups** and presently has 30 active MoUs and Association with Industry and others like Curtin University (Malaysia), CISCO, AWS Academy, Skill Rack, Internshala, MSME, eYantra IIT Bombay, Virtual Lab IIT Delhi, etc. These associations/tie-ups aim to bridge the gap between the requirements of the Industry and the curriculum through International/National Certificate courses. Based on Industry 4.0 requirements, IIST provides training, internship, certificate courses, value-added courses, and workshops by Industry experts or subject experts.

Intellectually capable human potential

“Samagra Samutkarsh Yojana (SSY)”- Institute staunchly believe in preparing the students in such a way that whilst meeting the expectations of the outer world, they are prepped to take care of their inner selves too

which includes all three spheres i.e. body, mind and soul.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Vision with enhancing the employability Quotient of the students with Holistic Development.
- IIST is a pioneer institute in central India to attract meritorious students of JEE through Merit-based scholarship.
- Admission from different states of India.
- Lush Green sprawling Neat & clean completely Wi-Fi-enabled campus.
- Well maintained Yoga center, Gymnasium, and Canteen with high-quality food quality standards.
- Healthy Eco restoration practices through Green Audit, Energy Audit, and Environmental Audit in Place. Institute has adopted solar Energy and energy-efficient equipment.
- Institute has industrial collaboration for certification, internships, projects, and other academic and non-academic activities.
- Institute has one foreign university collaboration for academic activities.
- Excellent infrastructure including classrooms with projector, Wi-Fi campus, well-maintained sports infrastructure, Separate Girls and Boys Hostel, Transport system.
- Active incubation center, IPR cell, EDC cell, and IIC for the ecosystem.
- Regular career development activities through a well-established CDC cell.
- Active placement cell to support placements of students.
- Fully automated library with 73781 books, 72 Journals/e-resources, 200 seating capacity, e-Library, and language lab.
- Introductions of new programs catering to current requirements of society and industry.
- Active Linkage with IIT Bombay eYantra, IIT Delhi Virtual lab, NME-ICT, NPTEL, and various industries and institutions
- Increased sound financial strength.
- Well maintained sports facilities like pickleball, Cricket, Football, Lawn tennis, badminton, football, basketball, volleyball, etc.
- Experience, qualified, and dedicated faculty.
- Admission through online-off campus counseling regulated by the Directorate of Technical Education, Bhopal.

Institutional Weakness

- Lack of consultancy linkage from industries.
- Lack of research and publication work.
- Autonomy in admission.
- Students' intake from the vernacular background.
- Lack of research projects in departments.
- Funding from government agencies to conduct seminars, conferences, and workshops.
- Lesser involvement in curriculum design, admission process, and faculty in university affairs.
- To increases admission in other than CS and IT branch.

Institutional Opportunity

- Potential to become a private university and Autonomous Institute.
- Shift in the mindset of faculty and students alike towards research and development.
- Can become the center of potential excellence in engineering education.
- Ample scope to establish research center.
- Convert the idea to a Startup that can be started in the institute with less effort.
- Introducing new skill development courses.
- Use of alumni strength for institutional growth.

Institutional Challenge

- 100% implementation of ERP.
- Introducing and successful implementation to start new courses and run them.
- Attract national-level students and faculties in the institute.
- Linking skill-based courses and employability.
- Generate government grants for the institute.
- To obtain autonomy status.
- Rural location and agrarian background of students

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

IIST is approved by the All India Council of Technical Education (AICTE), recognized under Section 2(f) of the UGC Act, 1956, and is affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, and follows syllabi which is a mandate by the university with an update from time to time.

AEC/ IQAC develops action plans for effective implementation and delivery of the curriculum. Institute is also approved by AICTE, as per SRA institute inculcate orientation, induction program before commencement of new session.

Vision and Mission statements are displayed at the entrance point, the Principal's office, and in different blocks of the institute. Also, PEO, PSO, and POs are displayed at all prominent locations along with the website and outside the department. All COs are displayed on the website. AEC/ IQAC monitors the effective implementation of the curriculum with a focus on ICT-based delivery. The academic calendar and activity are prepared in line with University academic calendar. Faculties prepare course file which reflects the proposed plan, evaluation, and assessment of students on the basis of various assessment tools and classroom teaching. Faculties are encouraged to participate in various FDPs, Workshops, and seminars conducted by AICTE or any reputed institutions.

Academic flexibility at IIST is ensured by the regular conduct of certificate programs, Internships, Training, and workshops under the different SIG activities (Skill Improvement Group). The basic objective of this scheme is the enhancement of the skill-set of students to increase their employability quotient. The course modules of such SIG courses are designed in line with the industry requirements.

Various cross-cutting activities like celebration of days, expert lectures, seminars, quizzes, CDC cell activities, workshops on ethics, workshops, and lecture on women empowerment are conducted to provide practical knowledge to students as per the curriculum provided by affiliating University.

Each student actively participates in project work/field work/internship from the first year to the last year. Regular feedback is taken to improve the academic and administrative performance of the institute and feedback analysis and feedback action taken report prepared by the respective departments.

Teaching-learning and Evaluation

The institution always prefers quality over quantity. The admission process reflects the same, which is transparent, with strict adherence to merit and guidelines issued by State Govt. from time to time. Utmost care is exercised not to differentiate between the students on basis of race, sex, socioeconomic background, learning abilities, etc. In fact, the institution has adopted a merit-based fee structure that ensures that merit is recognized and rewarded. This practice has showed improvements in the intake of engineering students year-on-year with students having good percentage in national level qualifying exam (JEE)

The institution boasts of well-qualified staff and has to its credit twenty faculty with doctoral degrees and the rest of the staff with PG degrees. In the last five years faculties with a Ph.D. degree have increased as full-time teachers, also IIST maintains a 1:15 faculty ratio prescribed by SRA (AICTE).

To develop practical and innovative thinking student-centric methods, experiential learning methods, and participative learning methods are adopted in each department like project-based learning, industry tour, fieldwork, and the use of e-resources.

The external assessment of students is done by the affiliating University, RGPV. The methods of assessment are the end semester examination for both theory and practical courses.

Institute follows an internal evaluation system prescribed by the affiliating university with the support of ICT tools. MSTs are conducted on regular basis. Internal assessment through MCQ, Quiz, Assignment, and viva is a continuous assessment process. Students are shown their test copies and they can view their marks after MST within the timeline specified in the calendar.

The Institute has also adopted the AICTE Exam reform policy in the year 2018-19.

The Institute calculates the PO-CO attainment regularly and analyzes it for further improvement in the same. The attainment also focuses on indirect methods of assessment. The students are briefed about the same by the faculty during routine academic engagements. Faculties maintain the course files for all the courses taught in the semesters.

Regular feedback is taken from the students and stakeholders alike.

An effective grievance redressal mechanism is also in place as per AICTE guidelines to ensure that all grievances are dealt with in an effective and time-bound manner.

Research, Innovations and Extension

The institution is constantly striving to improve research at institutional level. The institute encourages faculty and students alike to enroll for memberships of different professional bodies and participate in different conference conducted by other Universities/Colleges or Journal and also to present their research works in such events. They were also encouraged to participate in EDC, IPR and RM related events and for this institute also having promotion policy for R&D (incentive provision). In addition, institution has setup an eco-system for innovation that includes an incubation center (CARE), institutional innovation council, IPR Cell, EDC Cell and various technical clubs. Institute also adopted NISP startup policy and got 4.0 and 4.5 star rating out of 5.0 from IIC MIC MoE, Govt. of India for developing ecosystem at Institute level. The institution regularly conducts motivational sessions, expert talks on recent technologies etc., for motivating and guiding the students to learn the art and skill of ideation, innovation and transfer of knowledge. An institutional grant of INR 20 lacs is also allocated to promote start-up ideas if any. Finally, to promote research activities an impetus was given for MOUs and Collaboration with academia and industry alike.

As a result of above initiatives, the institution has received a grant of 10.23 Lakhs from AICTE and other Govt and non Govt. agencies.

IIST has 30 active MOUs, association and Collaboration with 67 activities in last 5 years.

Research output of the institute has increased in last two years up to 65 papers in UGC listed journals and written books and book chapters, papers in conferences, patents (16) has published.

IIST established NSS unit and conducted various extension activities and outreach programs are carried out in last five years. Institute has also adopted one village to conduct various social activities.

Infrastructure and Learning Resources

The institution is constantly striving to improve research at the institutional level. IIST encourages faculties and students alike to enroll in memberships of different professional bodies and participate in different conferences conducted by other Universities/Colleges along with publication in reputed Journals. They are also motivated to present their research works at such events. They are also encouraged to participate in EDC, IPR , and Research Methodology related events. For the same, the institute also has a strong policy for R&D (incentive provision) to promote research and innovation skills. In addition, the IIST has also setup an eco-system for innovation that includes an incubation center (CARE), Institutional Innovation Council, IPR Cell, EDC Cell, and various technical clubs. The institute has also adopted the NISP startup policy and got 4.0 and 4.5-star ratings out of 5.0 from IIC MIC MoE, Govt. of India for developing the ecosystem at the Institute level. The institution regularly conducts motivational sessions, expert talks on recent technologies, etc., for motivating and guiding the students to learn the art and skill of ideation, innovation, and transfer of knowledge. An institutional grant of INR 20 lacs is also allocated to promote start-up ideas if any. Finally, to promote research activities, an impetus was given for MOUs and Collaboration with academia and industry alike.

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The research output of the institute has increased in the last two years up to 65 papers in UGC-listed journals and written books and book chapters, papers in conferences, and patents (16) has published.

IIST started the NSS unit in the year 2021-2022.

The Institute also conducted various extension activities and outreach programs in the last five years. Institute has also adopted one village to conduct various social activities.

Student Support and Progression

IIST Indore has a lush green 10-acre campus and 19808 Sq. M. built up area.

IIST has 35 classrooms all equipped with ICT facilities and 53 different labs including 19 computers labs, 2 workshops, 2 ED halls with required software prescribed by AICTE, 2 auditoriums, 3 seminar halls with a capacity of more than 200, academic activities, placement activities, cultural activities, workshops, guest lecture, seminars are conducted and 2 conference halls.

Separate hostel for boys and girls is available with good security to ensure safety of the students. A gymnasium and yoga center are also provided for maintaining the fitness of the students. The canteen facility is one of its kind and provides quality, tasty and nutritious food as per the dietary requirement.

Indoor and Outdoor sports facility is available to balance work and play. Regular sports activities are conducted to develop sportsmanship amongst the students.

In addition, the campus hosts an ATM and emergency ambulance services.

IIST has a central library for all departments which include ILMS (Fully automated software), OPEC search, 73,781 books, 6090 title, e-resources, and a separate reading section with 200 capacity, e-library, Magazines, and newspapers.

IIST has 537 computers (With 1 : 2.97 Student-Computer Ratio) upgraded frequently, with High speed leased line up 250 Mbps. Institute also has an advanced lab for iOS, IoT lab, Robotics Lab & AI / ML lab.

Governance, Leadership and Management

IIST leadership believes in decentralization, participation, and extensive consultation between the management and all stakeholders. With the participation of all the stakeholders, the new management proposed a perspective plan and ensured its implementation within the predefined timeline. Academic and administrative activities are carried out in accordance with well defined policies. A well-defined structure works in the institute. The Director General (DG) represents the management and is in charge of the decision-making at all levels of governance. The Principal of the Institute is the whole sole in charge of all the activities and is supported by HODs and IQAC. The financial matters are handled by GM finance and his team. Various committees, departments, the exam section, student section, HR department, CAO, and the Admin officer, are responsible to ensure the quality and excellence of the institute. In this way, the institute has practiced decentralization and participatory governance.

- Various clubs and cells ensure active participation of students and faculties, which develops their

leadership quality.

- Effective staff welfare measures are in place such as EPF facility, Staff quarters, Salary advance, Leave benefit, etc. In tune with the vision and towards having more technically sound staff, the institution also follows a policy of extending financial assistance to the staff for attending seminars/conferences wherever required.
- Administrative training programs for both the teaching as well as non-teaching staff are conducted regularly. Effective performance appraisal systems are in place in an attempt to identify the staff that is performing well. Transparency is maintained at all levels in the appointment of staff.
- IIST also has a well-defined SOP for purchase that ensures that authority responsibility at this level is taken care of.
- Quality initiatives were taken by different committees before the formation of IQAC. Since 5-Jan-2022, IQAC has been conducting and coordinating all quality initiatives, implementation and functioning of best practices.
- ISO, NBA certification has been granted to the institute in past years.
- To improve quality, various feedback from stakeholders is taken at the end of academic years. Financial audits, Green audits, Environment audits, and Energy audits are in the practice of the institute.
- Also, the action taken report is displayed on the website.
- The institute has proper fund mobilization and utilization of resources strategy.
- In the institute e-governance system various areas of operations are implemented for various quality measures.

Institutional Values and Best Practices

- To promote gender equality and awareness for girl students, female faculties, and staff members, the institute has been consistently organizing various interactions with experts for the past several years and also has a clear Gender equity policy.
- Institute displays sensitivity to issues like environmental problems and green issues. It adopts environment-friendly practices and takes necessary actions such as – energy conservation, rainwater harvesting, waste management, green practices, and audits, etc.
- In order to facilitate the services to the Divyangans (disabled Friendly Policy), the college provides recommended facilities like ramps, disabled-friendly toilets, etc.
- The Institute emphasizes explicit concern for human values and professional ethics in its curricular and extra-curricular activities. This emphasis has become an integral part of the fundamental culture of this Institution that strives and struggles to produce not merely knowledgeable and skillful professionals, but complete human beings. During their tenure at the Institute, students participate in several events including celebrations and festivals inculcating the values of tolerance and multicultural inclusiveness, respect for discipline, and the code of conduct of an organization.
- The Institute adopted best practices for constant updation of knowledge, enrichment of practical skills, and bridging the gap between Academic and Industry. To make students fit for Industry-4.0, focal attention is laid on their skill enhancement through Skill Improvement Groups (SIGs).
- Further to inculcate a sense of responsibility toward “Mother Nature” among stakeholders Institute adopted the second best practice named as Green Wave Movement.

Institutional distinctiveness - IIST envisions an all-inclusive growth of student i.e. holistic development to attain Intelligence-Emotional-Social-Happiness-Spiritual Quotient in an individual, along with their goals of

academic excellence. IIST is committed to enhancing the employability quotient of the students with Holistic Development. Towards this objective, IIST introduced the concept of “*Samagra Samutkarsh Yojana (SSY)*”. Institute staunchly believes in preparing the students in such a way that whilst meeting the expectations of the outer world, they are prepped to take care of their inner selves too which includes all three spheres i.e. body, mind and soul.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY
Address	Rau Pithampur Road, Opposite Indian Institute of Management IIM Village-Dehri, Tehsil -Indore
City	Indore
State	Madhya Pradesh
Pin	453331
Website	https://iist.indoreinstitute.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Keshav Patidar	0731-4010685	9926530687	-	principal@indoreinstitute.com
Associate Professor	Puneet Singh Duggal	0731-4010521	9893186681	-	puneet.duggal@indoreinstitute.com

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Madhya Pradesh	Rajiv Gandhi Proudyogiki Vishwavidyalaya	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	19-08-2016	View Document
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	06-06-2021	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Rau Pithampur Road, Opposite Indian Institute of Management IIM Village-Dehri, Tehsil -Indore	Rural	10	19808

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						

Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering	48	HIGHER SECONDARY	English,Hindi	180	180
UG	BTech,Mechanical Engineering	48	HIGHER SECONDARY	English,Hindi	60	44
UG	BTech,Electronics And Communication Engineering	48	HIGHER SECONDARY	English,Hindi	60	60
UG	BTech,Chemical Engineering	48	HIGHER SECONDARY	English,Hindi	60	26
UG	BTech,Civil Engineering	48	HIGHER SECONDARY	English,Hindi	60	35
UG	BTech,Information Technology	48	HIGHER SECONDARY	English,Hindi	60	60
UG	BTech,Artificial Intelligence And Machine Learning	48	HIGHER SECONDARY	English,Hindi	60	60
PG	ME,Computer Science And Engineering	24	GRADUATION	English,Hindi	18	3
PG	ME,Mechanical Engineering	24	GRADUATION	English,Hindi	18	0
PG	ME,Electronics And Communication Engineering	24	GRADUATION	English	9	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	2				10				101			
Recruited	2	0	0	2	8	2	0	10	68	33	0	101
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				25
Recruited	21	4	0	25
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				28
Recruited	26	2	0	28
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	0	0	7	2	0	3	6	0	20
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	1	0	0	64	28	0	93
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	387	11	0	0	398
	Female	112	4	0	0	116
	Others	0	0	0	0	0
PG	Male	2	0	0	0	2
	Female	1	0	0	0	1
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	23	27	9	2
	Female	6	10	3	0
	Others	0	0	0	0
ST	Male	6	6	2	1
	Female	0	2	0	0
	Others	0	0	0	0
OBC	Male	112	142	66	35
	Female	22	35	13	12
	Others	0	0	0	0
General	Male	177	213	145	80
	Female	49	49	37	10
	Others	0	0	0	0
Others	Male	37	25	6	0
	Female	12	10	1	0
	Others	0	0	0	0
Total		444	519	282	140

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:

The institution aims to produce competent professionals in the field of engineering and value-based future leaders by offering quality education that incorporates training in Holistic Work-Life Management. IIST envisions an all-inclusive growth of student's i.e. holistic development to attain Intelligence-Emotional-Social-Happiness Quotient in an individual, along with their goals of academic excellence. IIST are committed to enhancing the employability Quotient of the students with Holistic Development. Towards this objective IIST introduced the concept of "Samagra Samutkarsh Yojana (SSY)", Institute staunchly believe in preparing the students in such a way that whilst meeting the expectations of the outer world, they are prepped to take care of their inner selves too which includes all three spheres i.e. body, mind and soul. The institution has done a MoU with the Heartfulness Education trust as per the guidelines of AICTE and is imparting Universal Human Values training to the students. The institute has kept pace with the development that has taken place in the engineering/ technological education in the country and also across the globe and faculty members have encouraged students to seek out-of-the-box solutions for difficult engineering problems. The institution is also preparing to include multidisciplinary approach as per the National Educational Policy 2020. NEP 2020 recommends integration of learning experiences in the humanities and arts with science, technology, engineering, mathematics, and medicine (STEM) for undergraduate and graduate students. In order to achieve this, the institution promotes the students to participate in various club activities like cultural activities that involve regional art flavors like the Ghoomer and Kalbelia Dance types representing Rajasthan. As per NEP 2020, Institute promote Multidisciplinary / interdisciplinary activities and Institute also adopt best practice of coding competency across all branch i.e in writing computer programming code, a Mechanical and Chemical Engineering student joins hands with students from Electronics and Communication Engineering, Computer Science and Engineering, etc. Institute also ensures students to participate in national and international competition in interdisciplinary groups. Recently our 20 teams participate in Smart India Hackathon 2022 and six teams selected for final and

	<p>the formation of teams were interdisciplinary from CS/IT/AIML/EC. In this manner, seeds of multidisciplinary education are sown. The institution is affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal and therefore it has to adhere to the curriculum provided by the University and therefore the flexibility in curriculum is as per RGPV, Bhopal guidelines. The university provides a curriculum which includes credit-based courses with provision of field-work and projects that involves community engagement and fulfils the student's needs for multidisciplinary education. Some of the courses that provide multidisciplinary engagement are Rural Outreached, Cyber Security & Energy & Environmental Engineering across all branches, Communication Skills, Computer Programming across all branch, etc. New courses are introduced, keeping an eye on the change in the marketplace and global demand. Thus in 2021-22, new courses like Artificial Intelligence and Machine Learning have been started in the institute.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>The institution is affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, which is a member of National Academic Depository (NAD). The University has adopted this policy since long and under this policy the University provides the facility of DigiLocker – a way of keeping the academic records of the students in digital repository. This data is accessible to students via the University Student Portal and it helps them to maintain their academic record.</p>
<p>3. Skill development:</p>	<p>“Samagra Samutkarsh Yojana (SSY)” aims at imparting skill based, project based and task based education in such a way that attains the academic and industry 4.0 requirements while bringing the feeling of tranquility, harmony, and blissfulness. At IIST, the students are provided with fair opportunities, environment, and space that help them unravel their innate abilities. Under the SSY Institute practices of Skills Improvement Groups (SIGs), Institute-Industrial Collaborations, Clubs and Career Development activities. The vibrant internship, training & workshop programmes under various SIGs prevalent in the institute act as catalysts for skill development. In addition, the institution conducts skill-based certification programs throughout the year as a part of its SIG (Skill improvement Group)</p>

	<p>initiative. Students are promoted to join these programs by providing them free of cost via MOU with the participating National/International Partnering institution. Industry services are ensured by MoUs with local agencies that provide resource persons to conduct the training of the students. Institute successful develop ecosystem and call proposal for start-ups through incubation center and also approved few proposal for startup. The basic premise of NEP whereby degree-owners are turned into empowered individuals is being followed. The institution has developed Career Development Cell which conducts soft skills and communication classes, soft skill oriented grooming sessions from first year to final year as the students come from rural and vernacular backgrounds and usually are first generation learners. Furthermore, students are sensitized to community issues and values by conduct of events like Constitution Day celebrations, Gandhi Jayanti and Swacchata Pakhwada. Students are given exposure to Industrial Environments via field visits and they are regularly addressed by Resource persons from Industry via guest lectures and webinars.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The RGPV University has integrated Indian Knowledge System into the curriculum and Institute has to adopt the university curriculum only as we are affiliated Institute. Institute also successfully adopting the bilingual mode of teaching i.e., English and Hindi regularly. The percentage of vernacular language is strategically kept high in lower classes and as the students' progress in the program more emphasis is kept on delivery in English Language especially as it is the official language of curriculum delivery. Furthermore, the residential boy's hostel facility in the campus is named Varahmihir and the girl's hostel facility is named Maitraiye. In line with this the institutional Yoga training centre is named Patanjali Yoga Kashya and the institutional mess is named as Aahar Nilayam. Use of such a nomenclature system and its importance during various events in college has sensitized the students to Indian Traditional Knowledge system. The students are promoted to maintain the cultural diversity in the campus by allowing to celebrate regional festivals like Pongal, Lohiri, Parsi New Years Day, Ganesh Festival in the campus. In cultural event and annual program students are particularly</p>

	<p>asked to perform folk dance forms like Kalbeliya, Ghoomer etc. to remind them of our cultural traditions. A number of students come to the Institute from other states like Bihar, Jharkhand, Gujarat etc. While conducting classes in English, demand from the students to explain matters in their mother language often comes. Faculty members explain subjects in Hindi languages outside the classroom to the students who face any difficulty due to the English medium of communication in class. Under the PMSSS J&K Scholarship scheme, students from Jammu, Kashmir and Ladakh get admission in the Institute and initially they face a little cultural shock. The institute organizes various orientation activities for all the students and gives impetus to the students to take part in a variety of cultural and scientific programmes. Other than creating engineers, the goal of the institute is to make good Indian Citizens and the Institute claims to have started this process at the advent of the 21st century when the idea of NEP was perhaps not conceived of. It is claimed that the institute has never lost sight of its Indianness while thinking globally and imparting state-of-the-art technological education to the students</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>IIST, since 2016, has formally adopted Outcome Based Education (OBE), which is a student centric teaching and learning methodology. To understand the process guest lectures by experts were conducted and then visits to the NBA and NAAC accredited institution was undertaken to understand the basic tenets of OBE. The Computer Science and Engineering, Mechanical Engineering and Electronics and Communication Engineering Accredited by NBA in year 2012-13 and later on Computer Science and Engineering and Electronics and Communication Engineering reaccredited by NBA in year 2016-17. The institution established Institutional Quality Assurance Cell and as per the prevalent guidelines has established the method of OBE. Now, the affiliating university is also gradually incorporating the principles of OBE and has revised the syllabus and incorporated the concepts of course outcomes in the same. At the Institution level, all the programs have well-defined vision; mission, program outcomes, program educational outcomes and program specific outcomes in align with Institute Vision and Mission. These are supplemented by</p>

individual course outcomes for all the courses. The Institute also adopts the AICTE Exam reform policy in year 2018-19. The Institute calculates the attainment regularly and analyzes it for further improvement in the same. The attainment also focuses on indirect methods of assessment like feedbacks and is regularly taken from the students and stakeholder alike. All the PO, PEO, PSO and CO is made available to the stakeholders on the institutional website and is displayed in the institutional building at various prominent places. The students are briefed about the same by the faculty during routine academic engagements. Faculty is maintaining the course files for all the courses taught in the semesters. As stated by David Kolb in his famous article on Experiential Learning Model (ELM), in order to gain genuine knowledge from an experience, the learner must have four abilities: willingness to be actively involved, ability to reflect on the experience, analytical skills to conceptualize the experience and decision making and problem solving skills. The teaching learning process at IIST not only focuses on Experiential Learning but also focuses on developing these four abilities as mentioned above among the students. Various Experiential Learning practices of IIST include Practical's, Internships, Field Projects, and Industry Visits etc. Few examples of Participative Learning practices at IIST are as follows: Classroom Interaction: Classroom Interactions at IIST manifests on changing instructional role towards more support and negotiation over content and methods and focuses developing and supporting students' autonomy of critical thinking. Peer-Learning: During project work students' collaborate among themselves and share their knowledge and skill. Conferences/ Seminars/ Webinars: The Institute organizes these events regularly and encourages students to participate and interact with resource persons and peers. Use of Technology Stack: Google Classroom is being used as a LMS so that students and teachers can always stay connected and participate in academic discussions. Club Activities: Students conduct several competitions, workshops and lecture series as part of activities of various Student Clubs at the Institute. Project-based Learning: Mandatory project work by third and fourth year students.

6. Distance education/online education:

Since inception, Indore Institute of Science and Technology has promoted the usage of ICT enabled tools in the teaching learning process, as suggested in NEP as well. As a result, most of the classrooms are ICT enabled with overhead projectors and wi-fi connectivity. All the computer laboratories are equipped with 1:1 student to computer ratio while working, with computers having state-of-the-art configuration and LAN connectivity. While conducting a class, faculty members switch between projections and chalk-and-talk, as and when necessary, as all the classrooms are enabled with dual facilities. An adequate number of computers with internet connectivity is available at the Central Library as well where students can access digital contents, e.g., Journals, NPTEL Courses, EBooks, Question Papers of previous years etc. The institution adopted digital tools for education to its fullest extent during the Covid-19 pandemic and since then is striving hard to also adopt newer and newer methods of digital pedagogy. Keeping in view the convenience and adaptability of the student, various technological tools like Whatsapp Group formation and Google Classroom as platform to share digital content like video lectures, topic presentations, question banks, model answers are being used. Similarly, use of Google Meet and Zoom Platforms are now a routine practice for online session. These digital tools are also being used as group collaboration and interaction tools and are part of institutional efforts towards blended learning. The affiliating University has made several Digital Learning initiatives available to the students via its Portal. Quick-links for these materials are made available on the Institutional websites e.g. an NPTEL initiative which makes available all the video lectures of experts in one place. Institute also associated with coursera, edX, skill rack, Github and Geek for Geeks platform. Distance education dissemination is done via the local chapter of SWAYAM that is available with the institute. Institute is also associated with IIT Delhi virtual lab for conducting online lab session. In many cases different open source simulation software's are being used for conducting laboratory classes online. For laboratory classes where no such software or no virtual lab content is available, Institute has created facilities for recording videos, of the experiments that have been done by the faculty members in

laboratories. The Institute has adopted Choice Based Grading System (CBGS) in all the undergraduate programs and encourages students to enroll in courses from MOOCs platforms as recommended by the AICTE and affiliated university for minor specialization.

NAAC

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1649	1295	1145	1080	1067

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 208

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
113	115	103	76	85

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
344.62891	212.11517	496.94388	714.5759	920.05136

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

IIST is affiliated to RGPV, Bhopal. The curriculum and syllabi prescribed by the university are strictly followed by a well-planned and documented process, as follows:

Before the commencement of classes:

Step I- Receipt of program-wise curriculum & Academic Calendar for the session from the University.

Step II- Formulation of the Institute's Academic Calendar for the semester through AEC / IQAC and notification to all.

The Institute adheres to the academic calendar provided by the University for the conduct of a CIE system. The Institute's academic calendar includes the dates of commencement and completion of syllabus, schedules of internal exams etc.

Step III - Review of the syllabus by a team of senior faculties, to identify any new subject/s introduced or changes made in the curriculum by the University and raise the requirement of new books and lab equipment based on such new subjects/changes.

Step IV - Formulation of department Activity Calendar for the semester and notification to all.

Step V- Competency/experience-based allotment of subjects to various faculty members

- Formulation of Faculty wise weekly teaching load including lectures/ tutorials/ lab as per syllabus of the subject.
- Handing over weekly teaching load, PDP, aptitude, library, and sports, to timetable In-charge for preparation of timetable and informing respective faculties.

- Teachers prepare Course files which include Vision, Mission, PEOs, PSOs, POs and COs, lesson plans, of the subjects allotted, and the laboratory sessions.
- The academic schedule strictly followed as per the academic calendar.

Step VI- Notification of class timetable to faculties & students through display/notice boards and official WhatsApp groups.

Step VII - Display of Evaluation Scheme on Notice board.

After commencement of the semester:

Step I- Regular conduct of lectures/ tutorials/ lab classes duly monitored by HOD/ Dean/ Director on regular basis.

Step II- Dean / HoD monitors the course delivery and syllabus completion status along with attendance and the class coordinator also displays a short attendance list etc.

Step III- Conduct Mid-semester exam/quiz/Assignment.

- As a part of CIE, various assignments and quizzes etc. are conducted
- The conduct of MST and Practical Examination is centralized. The Evaluations are also centralized.
- Evaluation of MST answer sheets, showing of evaluated answer sheets to students, and displaying the MST marks on the notice board are done as per predetermined timelines.
- Uploading of marks allotted for attendance, teacher's assessment, and compilation of subject-wise internal marks on the University website
- Conduct student feedback on the predefined parameters towards the end of the semester

After the End of the teaching session

Step I- University Examination.

- Compilations of internal marks and upload on RGPV Portal.
- General review of student performance, internally, by Principal/ Dean/ HOD.
- Review of Faculty wise student feedback and conduct of counseling/ mentoring of individuals by HOD for any shortfall and improvements.

Step II- Declaration of university results.

- Compilation and analysis of program-wise/ year-wise performance of the batch.
- Analysis and review of 'Results' by Principal/ Dean/ HODs and corrective measures decided for implementation in next semester.

File Description	Document
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1.2 Academic Flexibility

<p>1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years</p> <p>Response: 46</p>
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File Description	Document
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Institutional data in the prescribed format	View Document

<p>1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years</p> <p>Response: 43.57</p>
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<p>1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1220</td> <td>699</td> <td>303</td> <td>314</td> <td>181</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	1220	699	303	314	181
2021-22	2020-21	2019-20	2018-19	2017-18						
1220	699	303	314	181						

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Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

<p>1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum</p> <p>Response:</p> <p>IIST believes in promoting an inclusive value based educational community. Many courses that address the cross-cutting issues are integrated in the curriculum provided by affiliated university.</p>

Environment and Sustainability

In order to inculcate the importance of environment and sustainability, courses such as Energy & Environmental Engineering, Renewable energy resources, Environmental Engineering I, Environmental Impact Assessment, Integrated Waste Management, Earthquake Resistant Design of Structures, Energy Management, Renewable Energy Technology, Energy Conservation, Management & Audit, Disaster Management, Swachh Bharat Summer Internship, Water resources engineering, Water Supply & Waste Water Engineering-I are incorporated in the syllabus.

- Various days of importance are also celebrated on campus like world environment day, earth day and Day for Biological Diversity for sustainable development
- Various expert lectures on Solar Energy as an alternate source of Electricity, Sustainable Growth, and Students' responsibility are also organized.
- NSS Activities like Tree Plantation and cleanliness drive are organized on the campus regularly
- “Green Waves” Club aims to solely concentrate on ‘doing’ to save mother earth. The Institute has also received a **Letter of Appreciation** for “*one student one tree*” awards from AICTE.
- Since 2019, Green Audit, Energy and Environment Audit are conducted in the Institute

Human Values & Professional Ethics

To inculcate Human Values and Professional Ethics, the curriculum of UG/PG programs includes courses like Language Lab & seminars; English for Communication, Soft skills, and interpersonal communication, Rural Technology & Community Development, Professional Ethics, Managing Innovation and Entrepreneurship, Knowledge Management, Cyber Security, Entrepreneurship and Management Concepts, Systems Engineering, Industrial Engineering and Ergonomics, Process safety and Hazards Management, Information Security, Cyber laws and forensics, Intellectual Property rights, E-Commerce and Governance, Entrepreneurship development and management, Professional Ethics, Management Skill Development, Innovative Thinking, Creativity & Entrepreneurship etc.

University also adds two courses- Indian Knowledge System and Indian Constitution in IV & III Semester across all Programs, and also conducted expert lecture on Human Values and Ethics by the Institute.

- Students are made aware that ragging is banned in campus and undertaking from students and parents are taken.
- Industrial visits, internships, mini projects and field projects make the students aware about the importance of teamwork, leadership quality and professional ethics.
- Students-centric clubs/cells such as NSS, Yoga, and Meditation, Cultural Club etc. provide active forums to students to develop ethical and human values.

Gender

The Institute handles gender-based challenges and its related issues by doing different activities on the campus like women’s day celebrations, expert lectures on gender sensitization, and Entrepreneurs. Several extracurricular activities and celebrating women’s day to transform the gender-equal society and empower the female students and staff.

Advocating the need for safety for women in the workplace, a yearly expert lecture is conducted to arm female students and faculties with the means to defend themselves if the need rises. Believing the rights of

equality in the economical world, we organize an expert lecture on women entrepreneurs annually.

The Women's Grievance Redressal Cell provides help to any female complaining of discrimination, either gender discrimination or otherwise.

File Description	Document
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1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 98.97

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 1632

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 55.69

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
468	395	484	275	134

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
585	585	555	594	834

File Description

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Institutional data in the prescribed format

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2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the last five years (Exclusive of supernumerary seats)

Response: 47.37

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
213	169	222	93	49

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
292	292	277	297	417

File Description	Document
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Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 14.59

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Response:

Teaching-Learning is a phenomenon where both the teacher and the students are learning. The teacher refines his/ her subject knowledge and effective teaching skills, while the student finds it easier to understand the subject and its application.

IIST has replaced traditional teaching methods with more innovative and creative ways of disseminating, sharing, and facilitating knowledge development in students. The Institute adopts the following student-centric methods which are central to the Outcome-Based Education (OBE)

- **Experiential Learning** - Students gain experiential learning, partly through the curriculum itself, by making **projects/models** to carry out minor and major projects. Apart from this, students also gain from practical sessions in **Laboratory Courses**. In addition, **Value Added Courses/Certificate Courses** are also conducted to give practical and real insights into the latest technologies. All Students undergo **Industrial visits/tours/Internships** to gain experience, learn new skills, add value and earn hands-on experience. **Field work/surveys** are mandatory in the learning experience of civil department students. **Workshops** are also conducted for enhancing the knowledge of students. In addition to all, the curriculum also has **Virtual Labs, managed by IIT Delhi** in which simulations-based or experiential-based experiments can be accessed and performed remotely on the internet.

In IIST Students can also register for online **MOOC/Certificates** like NPTEL, edX, etc where students complete their assignments and quizzes based on experiential learning in addition to their regular curriculum.

- **Participative Learning** - Our Career Development Cell (CDC) encourages the students to participate in **Group Discussions** and **Mock Interviews**. We also conduct **Technical Presentations (PPT)** and **Video Demonstrations** of projects as per the curriculum. **Student chapters/Societies/Clubs** like ISTE, IICHE, Lexicon Club and Cultural Club etc. provide students with the opportunity to mentor their peers and help them in realizing their potential and dreams. The clubs aim to promote creativity, enhance technical and non-technical know-how, productivity, and holistic development of the students. Through our association and MoUs, Institute conducts time-to-time **Expert Lectures/Seminars** for the students to increase their participative learning experience. Various activities are conducted in Code-chef, skill-rack etc. where our students participate, learn and win.
- **Problem Solving Methodologies** - The problem-solving ability is further made perfect by incorporating different questions on different topics in **Quizzes** for internal assessment examinations. The special interest group (SIG) activities, **participating in various competitions** like hackathons, e-Yantra, and in reputed conferences, getting associated with sponsored projects of faculties and **publishing technical papers** in journals impart enhanced learning experience on task/problem/project based.
- **ICT Enabled Teaching:** ICT-enabled teaching includes internet-enabled class rooms with LCD, Language Lab, and E-learning resources (e-library / NDLI / RGPV-Library). Virtual classroom facilitates the guest lecture of eminent persons to develop their core knowledge in the subject. Auditoriums are equipped with LCD projectors for seminars and workshops. Communication skills training is provided to students during Language lab sessions. Online references, lecture talks, motivational talks, educational videos, and web references support the teaching-learning process. The institution has installed Wi-Fi on the campus to support the educational activities of the inmates.

File Description	Document
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2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
113	115	103	76	85

File Description	Document
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2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 11.38

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
20	15	09	06	06

File Description	Document
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Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

As IIST is affiliated with RGPV, Bhopal, it follows university regulations. With respect to the evaluation process, the University guidelines are strictly followed. The institute has an **exclusive exam cell headed by the center superintendent** for the smooth conduct of the examinations. The institute prepares its own calendar before the commencement of the semester based on the calendar notified by the university including specific dates for all internal assessments.

The internal assessment process and its components are **transparent** and communicated to the students by

- the respective faculty in the first week of the semester,
- display on notices board,
- through the institute website,
- mention in the university scheme, through MST notices and
- in the induction program of first-year students.

Internal assessment for theory courses is carried out through Mid-semester tests (MST), quizzes, etc. The

institute has adopted AICTE Exam reforming Policy, so while preparing MST papers, subject faculty mention/maps with Course-Outcomes (COs), Blooms-Level (BL), Program-Outcomes (POs) for Continuous-Evaluations (CE) and also ensures that every CO is covered through various internal assessment components. The MST answer sheets are evaluated by the course faculty. The assessed internal test papers are then shown to the students for self-assessment. The general grievances expressed by the students are discrepancy in totaling marks, wrong posting in mark sheets, unchecked questions, etc. The discrepancy, students brought to the notice of the faculty, is resolved immediately.

The laboratory is internally/externally assessed. Internal assessments are based on three parameters – day-to-day laboratory performance, viva-voce, and lab record. Lab evaluations and Viva-voce are done in the lab only in presence of the students so that process remains transparent and grievances are minimized. The student seminars/project seminars are conducted in presence of all the students of the class and are evaluated through rubrics.

Finally, as per the university notice, all internal marks are displayed on the notice board and also uploaded into the university portal, students can check on the notice board or access the same by logging into the system from their own login ids provided by the university after some time.

Time-bound redressal of grievances at different levels:

- **Department-level:** The continuous evaluation of students is carried out by faculty. The various assessments of mid-sem, quizzes, etc. are displayed on the notice board/Google Classroom. Faculty resolves any issue raised by students immediately. Still, students having any grievances, report to the Head of the Department.
- **Institute-level:** The Institute appoints Exam Superintendent for smooth conduction of examinations. The grievances during the conduction of examinations are considered and discussed in consultation with the Principal and, if necessary, forwarded to the university. Also, if student results are showing absent or the result is withheld, then the same problem is sent to the university immediately.
- **University-level:** The queries related to results, corrections in mark sheets, etc. declared by the university are resolved within a week's time. If students are not satisfied with their marks they can also apply for reevaluation and challenge the evaluation by paying the necessary processing fee to the university through the student portal.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

In IIST, the Program Outcomes (POs) and Course Outcome (COs) are drafted in line with the vision and mission of the Institute as well as the departments. The POs clearly state the purpose and scope of the Undergraduate and Postgraduate Programs. Further, every department has clearly defined the Programme Specific Outcomes (PSOs) for the various programs offered by them. The subject in charge of each course refers to the Course objective and outcomes shared by the university and develops/finalizes the Course Objectives and Course Outcomes (COs) by matching the syllabus along with the content.

Mechanism of Communication

The Vision, Mission, PEOs, Pos, and PSOs are displayed on the institute website for reference of all the stakeholders. At the beginning of every academic year, during the induction program, the vision and mission of the institute are informed to the newly joined students. The formulated POs, PSOs, and COs are communicated to the students by the respective subject teacher in the classrooms during theory and practical sessions. The PEOs, POs, PSOs, and COs are also displayed on the website as well as communicated to the students in various ways like display on the notice board of the department as well as in the laboratory, on departmental level documents, and on various prime location of each department in the Institute premises. As per the guidelines of Course file contents issued from the Principal office, PEOs, POs, PSOs, and COs are appended to the course file of the concerned subject. They are helpful in developing the framework of the teaching and learning process and to understand the various crosscutting issues pertaining to the environment, values, and professional ethics.

Method of Attainment of POs, PSOs, and COs

The attainment of COs is based on continuous internal assessment and semester examinations. Attainment of CO in a course is set as 30% from Continuous Internal Assessment and 70% from end-semester examinations.

Program Outcomes and Program Specific Outcomes Assessment Process

COs are mapped with POs in Matrix form. Correlation levels 1, 2, 3 are defined as low, Moderate, & High, respectively. “-” or blank is used if there is no correlation. The target level and level of attainment for any subject will be based on the previous year’s attainment and finalized by the concerned subject faculty.

Two methods are adopted for attainments are as:

Direct Methods represent the student’s knowledge and skills from their performance in the continuous assessment test, semester examinations, assignments/quiz/group discussion, and lab practical - to assess practical knowledge.

Indirect methods include surveys from the stakeholders to reflect on students learning.

In IIST, all direct and indirect assessment tools are used by all faculty members of all programs throughout the semester. The attainment of course outcomes is computed by all faculty members for their respective courses through direct assessment tools with a weightage of 80% and various surveys with a weightage of 20%. The HoD of each program collects this information from the subject faculty and computes the attainment of POs.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 98.65

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
236	123	295	367	220

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
240	123	297	375	223

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 100

File Description	Document
Upload database of all students on roll	View Document

NAAC

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 10.23

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
6.936	1.0	0	2.21323	0.08

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

IIST is streamlining and strengthening the innovation and entrepreneurial ecosystem on campus that will be instrumental in leveraging the potential of science, students' creative problem solving, and entrepreneurial mindset, and promoting strong intra and inter-institutional partnerships with different stakeholders. For this we have:

- Institute Innovation Council (IIC)-** IIC was established in the year 2019-20 in association with the **MoE Government of India** (2019-20 onwards). The primary aim of MoE Innovation Cell (MIC) is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in their informative years.

IIST holds 4 out of 5-star rating certificates by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up on campus during the IIC calendar year 2020-21 and 2019-20.

- Innovation Startup policy (NISP) was introduced in the year 2020-21** in the Institute with a vision to ensure that IIST will have strong ecosystem for startups, entrepreneurship, Intellectual Property Rights (IPR) ownership, technology licensing and promote Rural Enterprise.

Through NISP policy, IIST supports in terms of financial, IT requirements, and co-working space.

1. **IPR Cell** was established in the year 2016-17 to provide a platform to share and discuss the latest development and applications with practical exposure & assist the faculty members and students in the patent filing process.

With the continuous and sustained efforts of all the faculty and students of the Institute and also in collaborative research, 16 patents are published till date.

1. **EDC Cell** was formed in the year 2016 with the aim to promote and sustain student innovations from ideation to a startup developing entrepreneurial ecosystem. EDC cell continuously conducts events and awareness workshops for students.

For the past 5 years, our students are participating in various events and have also conducted various events like the 24 Hours Hackathon, Robotics Competition, etc. In the year 2018-19, 1 team was selected for the eYantra Robotics competition final. In the year 2019-2020, 2 Teams from ECE got selected for Smart India Hackathon (SIH) final. In 2020-21, 3 teams from CSE were selected and 2 teams won SIH with Rs. 2 lakhs cash prize.

1. **Incubation Center:** The main objective of the establishment of the Incubation Cell (CARE- Center for Application of Research in Engineering) is to promote On-Campus Innovation in Engineering and Technology. This center would identify innovative solutions and nurture them by providing the necessary support to convert the idea into a product /service. In this regard, CARE promotes the idea of the “Project of Start-up (P2S)”. The institute has earmarked funds to the tune of Rupees Twenty Lakhs (Rs. 20,00,000/-) towards CARE.

Selected ideas are Saloon Aggregator Service, Flat room rental platform, and Devflokis.

1. **Technical Clubs:** IIST has four clubs named Robotics, Drone, AI, and Aeromodelling that strengthen our ecosystem and the main objective will be to train the students in emerging areas.

IIST has received 1 Lakhs from AICTE under SPICES Scheme for Drone Club.

1. **Atal Ranking of Institutions on Innovation Achievement (ARIIA):** In the year 2020-21, IIST received a certificate of recognition in the band “Promising” under the category “college/Institutes (Technical)”.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 26

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	6	6	4	5

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals on UGC care list during the last five years

Response: 66.35

3.3.1.1 Number of research papers in the Journals notified on UGC CARE year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
19	46	26	15	32

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 10.58

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
6	7	1	4	4

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

IIST promotes regular engagement of students, and teaching/non-teaching staff with the neighborhood community for their overall development and sustained community development.

IIST encourages the students to interact with the neighboring communities to explore the opportunities for involvement in social work that helps in developing interpersonal relationships, leadership qualities, organizing skills, understanding the life of underprivileged people, helping needy people, and inculcating moral and human values among the students. Every year the college organizes a technical fest and annual day in this connection. It is a customary practice to invite students from nearby schools and showcase the activities of the departments for the benefit of society under the banner of “Apratim Pragya Pratispardha”.

Under Institute Social Responsibility Initiative, various initiatives have been taken eg.-

- (i) webinar on “Digital Pedagogy and Teaching Learning using ICT Tools” was organized for Principals and senior teachers of schools,
- (ii) a live interaction on “Success Mantra to Crack JEE 2020” with world-famous Prof. Anand Kumar founder of Super 30 and also by JEE toppers with JEE aspirants was hosted, and
- (iii) Career Counselling for 12th pass out for career opportunities.

Under the same head, the institute is constantly introducing programs aimed at skilling the 11th and 12th in this technological age and hand-holding them to match their capabilities with the needs of the industry. Students are trained in HTML, JavaScript, Python, SQL, IoT, AI, and Blockchain.

The institution has an active NSS wing that takes up projects like keeping the college clean and green, doing community service by conducting awareness drives to educate people on literacy and cleanliness, plantation, saving soil, organizing blood donation camps, and the like. The students feel a sense of responsibility and believe that they need to give back to society and the environment that they have taken. As part of the induction program, newly admitted students on admission are taken to villages to make them

aware of the societal issues and to skill rural youth under the Rural out-reach banner. Guest lectures are organized for the students at periodic intervals by inviting experts from outside to sensitize on social issues. Our students participate in activities such as the helmet campaign to promote its use and safety.

After the Fit India Movement began, the institute's sports department created the Fit India Freedom Run 2.0 with the goal of including fitness as a crucial component of undergraduate education where physical fitness is taught and practiced in addition to regular teaching-learning. Additionally, students raised or gathered money for India's government's initiatives like Flag Day.

During COVID19, faculties donated one day's salary under social responsibility.

IIST's novel initiative of launching of "Green Waves" Club lies in the fact that it moves beyond theories and textbooks aiming at solely concentrating on 'doing' to save mother earth. It is an environmental activity directed to subtly sensitize students, Staff members, and others through thought-provoking ideas to curtail the mining of natural resources such as Plantation drive, no use of Plastic, Organic vegetables, and Water harvesting and management.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

- **Felicitation certificate received for "One Student One Tree-AICTE campaign"**

At IIST, under the direction of Honorable Shri Arun S Bhatnagar, **Green Waves Club** was inaugurated in the year 2018 and numerous plantation drives have been organized, since the inception of the club. Students, along with teaching and non-teaching staff, have been sensitized to its objectives. The on-campus and off-campus activities have contributed to creating a platform that provides an opportunity for students to do something positive for the community and the environment by connecting with nature.

Our Green Waves club took part in the "One Student One Tree-AICTE campaign" which was launched by Hon'ble HRD Minister Dr. Ramesh Pokhriyal "Nishankon on 20th July 2019. This initiative is in line with the Hon'ble Prime Minister's idea of a green and healthy environment.

The unity of thought between the Government initiative and the Green Waves Club is that *"trees represent life, growth, peace, and nature; they produce oxygen, clean soil, prevent drought, control flood-related disasters, prevent soil erosion, improve physiological, mental, and spiritual health, and also reduce carbon footprints"*

Under this AICTE Campaign "One Student One Tree Campaign", various activities are conducted.

Students participated with full energy and enthusiasm.

The efforts paid off well, and **IIST got a felicitation certificate for the same.**

- **Certificate of Appreciation**

IIST also received a Certificate of Appreciation for the donation of lights and fans in the government school, located in the nearby rural area named- Narlai.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 11

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
7	1	1	2	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research and other academic activities during the last five years:

Response: 30

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

NVAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

IIST has a deep-rooted culture to guide the students at multiple levels and believes in the holistic development of the students. The institute has a robust infrastructure, one of its own kind premises set in serene & natural ambiance, backed with experienced & strong management, supported by a team of capable faculties & desired academic environment.

Class Rooms – Institute has 35 dedicated class rooms with area between 66 sq.m to 78 sq.m for teaching-learning. All are equipped with LCD projectors and Wi-Fi facility. The classrooms are well-ventilated, having proper lighting and fans.

Laboratories – Institute has 52 different labs including 19 computer labs, 2 workshops, 2 ED halls. All labs are equipped with equipment and required software prescribed by AICTE and affiliating university. IIST is also associated with Virtual Lab, managed by IIT Delhi, which provides remote access to Laboratories in various disciplines of Science and Engineering for students at all levels- from undergraduate to research.

ICT Facilities – In IIST, all labs are equipped with required and sufficient equipment prescribed by affiliating university and statutory body. IIST has 537 computers across all departments, 04 servers, 58 printers, 56 projectors, 33 Wi-Fi routers, 09 scanners, 179 CCTV and 26 number of license software prescribed by affiliating university.

Workshops and drawing halls –IIST has well equipped workshops and drawing halls that fulfill the needs of curriculum. Workshop facility is available for practical as well as project work and is equipped with modern machines and equipment. Students can perform practical in carpentry, welding, sheet metal, foundry, bench work and fitter shop.

Seminar Halls / Conference Halls / Auditorium / Open Stage: The institute has well furnished adequately spacious 3 seminar halls / conference hall and 2 auditoriums with a seating capacity of 100-220 students. The hall is well equipped with a projector, audio system and amplifiers. The seminar halls and auditorium serve as a venue for various activities throughout the year.

Gymnasium & Yoga Center – The institution has well equipped Gymnasium and Yoga Center with name “*Maharishi Patanjali Yog Kaksh*”. The students & faculties are motivated to make best use of Gymnasium to improve, maintain & sustain a quality physical health status.

Library: IIST has a Central Library that plays a vital role in providing resources which enhance the knowledge of the faculty and students. It is housed in an area of **1095 sq.m** with a seating capacity of **200** users. It is also attached with e-library which has 60 mbps internet bandwidth to access various e-journals.

Centre for Application of Research in Engineering (CARE): CARE was established to support Entrepreneurship development and incubation in association with IIC MIC Cell.

Sport Facility: Sports activities conducted on various grounds available for different indoor and outdoor games includes Cricket, Football, Kho-Kho, Kabbadi, Table tennis, Badminton, Volleyball, pickleball, etc.

Other facilities: IIST has an ATM, Boys' Hostel, Girls' Hostel, Staff Quarters, Canteen (*Aahar Nilyam*), Cafeteria, Day-care center, sick room, Ambulance, Students Development Cell (SDC), Transport Department, Career Counselling Hall and a Multipurpose Hall.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 2.85

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
4.83866	71.88937	0	0	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The fully computerized Central Library of Indore Institute of Science and Technology is a treasure house of knowledge comprising an ever-growing collection of around 73781 books, 10685 e-books, and 72 volumes of journals both national and international subscribed by the institute, over the years. All these valuable resources are well organized in the 1095 sq. m. area, where more than 200 users can sit at a time

and they are monitored by CCTV Cameras. A dedicated team helps the students and faculties to access their desired materials from the library. The Books are indexed as per the standard classification and cataloging system.

ILMS

IIST library is fully automated with an Integrated Library Management System (ILMS) developed in the year 2020 by the System Administration of IIST. Before 05-11-2020 Serosoft Software- a part of ERP- was in operation. The software is fully functional and currently used by all stakeholders of the institute.

The distinct features of IIST ILMS are:

- Accession register,
- book entry,
- setup, book issue,
- book return/reissue,
- user log,
- bulk location update,
- bar code generator, and
- project reports.

The software contains details about the author's name, title and publishing house.

All the books in the library are bar-coded and transactions are automated by using this barcode system. The entire task of book issues, returns, and renewals is computerized. The counter transactions page is simplified in such a way that the system user need not navigate anywhere and the transaction time is significantly reduced giving the end user a great experience. This system enables efficient library administration to cater to user services.

OPAC

An Online Public Access Catalog (OPAC) of books is maintained by library staff. Users use OPAC to find books and other resources housed in libraries. Users can search a catalog using several criteria, including author, title, publisher, and keywords.

e-Library

The Digital Library or e-library is an additional facility for the benefit of the students and faculty. Digital Library has 20 systems with internet connectivity to access the digital content like NPTEL Video Lectures taught by many IIT and IISC professors, E-Books, Projects report, PDF Notes, PPTs, and Course Files.

The institution has subscriptions for e-resource with J-Gate, DELNET, and MAT Journal. To access various e- databases, the institute has associated with NDLI, DELNET, J Gate, and RGPV e-Library. A remote access facility is also available in J-Gate and DELNET, where the members can access from their locations. All e-resources are yearly subscribed.

Books and Journals

The Institute has spent Rs. 3, 91,791 in the year 2021-22 on the purchase of books and Journals. An average amount spent on purchasing books and journals amounted to Rs. 3,18,016.

Per Day Usage

The library has 19.68 Percentage per day usage by teachers and students.

Library timings for Hostel Students

For the hostel students, library functioning is till 8:00 pm on all working days and during MST and End Semester examinations, the library remains open for all students till 8:00 pm.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

In view of the digital revolution and increased need and demand for robust IT infrastructure, IIST has provided well-maintained IT Infrastructure to students, faculty, and staff. Efficient ICT infrastructure is essential for teachers and students, to make the best use of Internet-enabled learning.

IIST is well equipped with wired and wireless internet access which can be accessed in classrooms, libraries, labs, corridors, auditoriums, seminar halls, and all student-dwelling areas.

IIST has dedicated 19 computer labs with 537 computers of Intel-i3, Intel G645, Intel Core2Duo, and Intel

P-D processors. The computers have 567 Windows Licensed software for the latest configuration of hardware. The software is up to the mark as per the specification of affiliating body. 61 Computers were upgraded in 2019 as per requirements and specifications provided by the Department.

High-Speed Internet facility- The institute upgraded its internet leased line (1:1) bandwidth from 35 Mbps in 2016 to 250 Mbps bandwidth, currently on the campus. In October 2018 the bandwidth was increased to 75 Mbps. In 2019, the same was upgraded to 175 Mbps. By August 2021, the bandwidth was increased to 250 Mbps

Generator and UPS – The institute has One Generator (250 KVA) and 30 UPS for constant power supply to make continuous Wi-Fi connections on the campus from the year 2018.

Firewall- IIST Campus has secured the Internet UTM Hardware Firewall which was upgraded in 2018 & 2021 with a capacity of 500 concurrent users, considering various web security aspects.

Server room- The Institute has a dedicated server room with 04 servers, used for ERP & CRM Server, Account Server, Student Data Backup, Share Server, Attendance Control Server, and e-Library. The last update in the server was done in 2021

CCTV- The campus is under electronic surveillance 24X7 with 179 CCTV cameras at different places on the campus, helping to maintain campus security. In the last five years (2017-2022), the institute further purchased 124 new CCTV cameras to strengthen the security systems

iOS lab- In the year 2018, the institute upgraded the iOS lab with Apple Machines.

IoT lab & AI/ML Lab- In the years 2018 and 2020, the institute established IoT lab and AI/ML Lab respectively.

Web Camera – In the year 2019, Institute purchased 69 Web cameras to facilitate the recording and delivery of lectures.

Digital Slate – In the year 2020, the institute purchased digital slates for e-Teaching.

LCD Projector – In the Institute, the classrooms, Seminar halls, Auditoriums, and Labs are equipped with LCD Projectors. Out of 56 Projectors, 19 projectors were purchased after 2017-18.

Email IDs: IIST has provided Institute Email Id (...@indoreinstitute.com) to students, Faculty, and Staff and has upgraded Google workspace in the year 2021-22.

Printers, Scanners, and other Hardware- Out of 58 printers, 14 printers were purchased from 2018 onwards. Out of 9 scanners, 2 scanners were purchased after 2017-18. Out of 33 Wi-Fi routers, 17 were upgraded after 2017-18. Out of 46 multimedia speakers, 30 were purchased in 2021. And, out of 212 Headphones, 60 headphones were purchased in 2019.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 2.97

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 556

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 29.62

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
141.15208	61.75463	224.00363	188.50285	180.96396

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 55.56

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
988	650	666	638	523

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 74.15

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1192	911	968	778	775

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 36.7

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
179	47	105	110	20

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
238	123	297	375	223

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 100

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
13	18	21	09	07

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
13	18	21	09	07

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 34

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
14	02	09	08	01

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 9.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
11	4	11	10	11

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

IIST has an active and registered Alumni cell. This cell has been contributing significantly to the development of the Institute through various financial and non-financial means.

Non-Financial Contribution –

1. **Alumni Meet – An Annual Alumni Meet is conducted in the institute** that aims to strengthen the

interaction between alumni and current engineering students. These sessions are an effort to motivate the students of the Institute to learn through examples of their own placed seniors. In these interactive sessions and meetings, the alumni share their views, and experiences regarding skills and current trends in the industry. The interactions give a sneak peek into the corporate and industrial work culture and help the pursuing students understand the expectations of the Industry.

2. **Workshops – The institute organizes** workshops with the help of alumni which in turn, helps facilitate the introduction of technological advancements on the campus- like 3D-Printer, Big Data, Analytics, Robotics, and Automation.
3. **Placement** – Campus drives are conducted in the institute in connection with the Alumni too. Such ex-students who are associated with well-known organizations in various capacities also keep in touch with available job opportunities in different fields. Alumni also openly share inputs to help the pursuing students with various phases of recruitment and selection, which is a valuable takeaway for the current students in numerous interviews.
4. **Bridging Industry-Academia gap** – The Institute has a robust Feedback system for Alumni, especially on curriculum, which serves as a platform to gather their views and challenges faced on the Industry-Academia gap. This feedback, thus collected, has helped the Institute to design various SIGs that go beyond the books and curriculum, and focus primarily on instilling industry-demanded skills in the enrolled engineering students
5. **Motivation and Knowledge sharing sessions** – IIST arranges **Guest Lectures** of Alumni at regular intervals. In such sessions, students also get an insight into the industry-academia gap, thus giving them clearer thoughts to plan and shape their careers in the right direction through Institute SIGs and their planned efforts. This practice has played a pivotal role in laying grounds for the enrolled students to understand various career and business opportunities. Alumni also extend support by providing all the support required for preparing industry-ready professionals/entrepreneurs, by sharing the current dynamics of the industry. Alumni also motivate juniors for career development in various domains like the National Entrepreneurship Network.
6. **Summer Internship** – Alumni help students in obtaining internship opportunities in various companies.
7. **Cultural Event-** One of the students- Prithviraj Singh Sisodiya- owns a music band named “*Dhaiwat Band*” in Indore. He has been performing in a number of National-level events like Republic Day, Independence Day, and others. He has also performed in the annual function day “Dazzle-2K22”

Financial Contribution – To date, alumni have a financial contribution of Rs 8.14 Lakhs towards the Institute

In the Year 2022, IIST initiated a registered Alumni Association with certificate number 03/27/01/24188/22 dated on 13th April, 2022.

File Description	Document
Upload Additional information	View Document
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Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

IIST has systematic governance, and a supportive and key management focuses on imparting futuristic technical education through dedicated well qualified faculty members and supporting staff.

Vision of the Institute:

- To be a **nationally recognized institution of excellence in technical education** and **produce competent professionals** capable of making a valuable **contribution to society**.

Technological excellence, competent professionals, and Contribution to society are the three key parameters in the vision statement as perceived by the institution.

Mission of the Institute:

- To promote academic growth by offering **state-of-the-art undergraduate and postgraduate** programs.
- To undertake collaborative projects which offer opportunities for **interaction with academia and industry**.
- To develop **intellectually capable human potential** who are creative, ethical and gifted leaders.

The mission statement spells out the needs of the society in explicit terms, namely competitive technology and holistic development of the individual to accomplish the vision of the institution.

The **Strategic Plan** for the institute was developed in the year 2018 for a duration of 5 years. Vision, Mission, policies and plans are kept open to all stakeholders for their suggestions. The participatory role of the management encourages the involvement of all, ensuring effective governance. The main objective of the strategic plan was to enhance the employability quotient of the students with Holistic Development. Working towards this objective, the institute introduced Special Interest groups/Skill Improvement groups, emphasized on Project-Based learning, stresses increasing MoU and associations, and introduction of certificate courses, focuses on student connect initiatives, has developed startup ecosystem, and works on school connectivity programs.

The Institute ensures **decentralized and participatory governance**. It emphasizes collaborative administration by incorporating all its stakeholders. The Management enlists the talents of the teaching and non-teaching staff while shouldering various administrative responsibilities and appoints them as officials that include General Manager (Finance & Account), Registrar, Chief administrative officer, Chief Marketing Officer, Director Placement, Director CDC, Dean –Sports, Head of R & D Cell, Head of Incubation center, AEC / IQAC Coordinator, Superintendent of Examinations, Heads of various Departments, and Coordinator of various clubs and committee. Teachers play an important role in implementing the vision and mission of the Institute and to that end play a proactive part in the **decision-making process**. Heads of Departments enjoy considerable administrative, Finance, and academic autonomy in running their disciplinary units. Students also participate in the governance of the Institution through effective representation in various clubs. The student representative acts as an interface between the administration and the students in curricular and extracurricular endeavors. This hierarchical structure makes sure of delegating the power and allocation of responsibilities for the smooth functioning of the Institute.

E-governance is incorporated in areas of administration, student admissions, support, library, and examination. Various types of feedback systems are adopted by the Institute for quality improvement. Grievances of the students are represented in the appropriate committees and resolved through suitable measures. The Management has kept Suggestion Boxes for the students to express their grievances anonymously.

File Description	Document
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6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

IIST believes in “Quality is a Way of Life” in its endeavours. While continuously improving on its educational service delivery, IIST focuses on the quality in all other aspects of campus life and in handling its stakeholders. Institute also believes that it is the human resource of any institution that makes the difference.

Adequate support in providing due welfare facilities to the employees and their families has brought about a qualitative change in the outlook towards the institution and commitment to maintaining excellence in

whatever they do.

Also, the Institute has a “Student Friendly policy” which encourages the students to be valued contributors to the Institute.

Organization Structure and Administration setup:

It has a well-defined Organizational structure with a hierarchy from Governing body to Director General to the Principal to IQAC and flows to HODs, Faculties, and staff members of different branches. Various pillars of such a system are the Chief Administrative Officer, General Manager (Finance and account), Director Placement, Director CDC, System Administrative Officer, Chief Marketing Officer, Registrar, and HR. Institute has a well-defined role and responsibility for every capacity.

Appointment and Service Rules:

The institute has defined service rules right from recruitment to pay fixation, from appraisals to promotion, and to the talent sharpening process. Based on the requirements received from different departments, the recruitment process initiates through the various sources of recruitment, followed by interview processes for eligible candidates. An appointment letter is issued to selected candidates who are being inducted into the system which briefs the service rules, prevailing systems in the Institution, and departmental setup.

1. **Promotion Policy:** -IIST considers that periodic promotion of employees to higher grades/positions, recognizes the accumulated experience & expertise. Promotion of faculty is done as per university norms which takes place once a year.
2. **Reward & Recognition:** IIST has a firm belief that it is human nature to develop a kind of affiliation and attachment with a group or institution with which he/she is associated/ employed. The recognition practices include giving appreciation letters, enriching & enlarging the job, multiple increments in the scale, and normal & fast-track promotions.
3. IIST’s basic philosophy and policy toward its employees is to **create a Harmonious Work Environment to build Careers for People**- for both the teaching faculty and administrative staff. The people are taken care of with the best working conditions, and good pay, providing ways for continuous learning and knowledge enrichment opportunities and platforms, guest lectures, and a flexible system.

The **Strategic Plan** for the institute was developed in the year 2018 for a duration of 5 years. Vision, Mission, policies and plans are kept open to all stakeholders for their suggestions. The participatory role of the management encourages the involvement of all, ensuring effective governance. The main objective of the strategic plan was to enhance the employability quotient of the students with Holistic Development. Working towards this objective, the institute introduced Special Interest groups/Skill Improvement groups, emphasized on Project-Based learning, stresses increasing MoU and associations, and introduction of certificate courses, focuses on student connect initiatives, developed a startup ecosystem, and works on school connectivity programs.

File Description	Document
Upload Additional information	View Document
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6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

IIST provides many welfare measures to its teaching and non teaching staff because we believe that staff and faculty are the most vital components and an organization cannot be at its peak unless its staff is satisfied, motivated, and encouraged.

The following welfare measures have been implemented in the Institute:

1. The institute provides **no-interest loans Accident Insurance, free transport**, and healthy and **subsidized meals in Canteen to the teaching and non-teaching**.
2. Institute contributes towards the **Employee Provident Fund, ESIC & Minimum wages** to its non-teaching staff & to the fourth-class employees too.
3. Provide **concessional fees** to employees' wards and **quarters/ flats at very concessional rates**
4. Institute promotes **organic farming** by providing with organic vegetables, grains, and fruits that are grown on IIST's land.
5. Institute provides **free of cost two sets of uniforms to staff members** of our transport department, maintenance department, and office boys.
6. There are **indoor games** and **outdoor games** for staff which they can play in their free/ spare time within the campus.
7. In IIST, females avail of maternity leaves benefits, and are facilitated with amenities like a crèche facility / Day care center to feel comfortable at the workplace.
8. Institute encourages faculty members to participate in various development programs through duty leaves **which have Institutional financial assistance** too.

9. Institute also provides **earned leaves, summer vacations, and winter vacations.**
10. Time to time, the institute plans **Get together, Lunch/Dinner,** and also celebrates all the festivals together to develop a multicultural cohesive environment on the campus.
11. ESH department organizes various events under **different clubs** where faculties and staff showcase their talents.
12. Motivational lectures are also arranged for staff members to create a healthy working environment. This not only increases the work-life balance of the employee but also helps in increasing productivity and allows the staff to work effectively.

The following facilities are also provided to employees for efficient functioning:

1. **Automation** of attendance and leave using a biometric system.
2. Faculty members are provided with an **individual cabin and a good computing facility** to facilitate a good working environment.
3. **High-speed Internet and free Wi-Fi facilities** for staff.
4. **Free stationery** like Pen, Pencil, Eraser, and sharpener, notepad, ruled pages, stapler, punching machine, whitener, highlighter, etc.

Institution Performance Appraisal System

Annual appraisal of performance with respect to yardsticks in totality, coupled with advisory support enables the employee to focus on continuous improvement of his accomplishments and thus develop a high level of satisfaction. Appraisal form duly appraised by next senior officer or reporting officer is submitted to the HR department for review by the Management on a date as specified by the HR department from time to time.

HR consolidates the performance of the faculty on an annual basis and classifies them into exemplary/outstanding/well-above average etc. and also identifies low-performing faculty (under the guidance of the Principals).

A duly constituted committee of specialists would advise the kind of motivation to be given to the faculty; after approval by the competent authority.

File Description	Document
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Provide Link for Additional information	View Document

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 11.79

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and

towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1	1	27	24	5

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years**Response:** 53.33**6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
86	83	105	63	47

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
53	45	45	42	43

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits

regularly (internal and external)

Response:

IIST follows & maintains a proper process for the mobilization of funds and resources in which the Principal, various committees of the institute, the Department Heads, and the Accounts office give their contributions.

The governing body of IIST & the Principal design rules for funds and the optimal utilization of resources for the institute. The Principal, GM-Finance, and Purchase Committees, along with the accounts department ensure that the expenditure lies within the allotted budget. GM finance also maintains records of all income and expenditures every year to monitor the efficient use of funds/financial resources. He compares the budgeted expenses with projected revenue and necessary modifications are done as and when required.

Mobilization of Fund

1. **Fees Collection:** For the Institute, fee collection from the students is the main source of revenue in the form of Hostel fees, transportation fees, Tuition fees etc.
2. **Donations through the Society:** Institute received donations from Companies and Individuals in the society account. For the utilization, the amount is then transferred to the institute account which appears on the Balance sheet.
3. **Funds from various government & non-government dept.:** - MP Council of Science & Technology, AICTE, e-Yantra, TEQIP, and DST, etc. are few examples who have provided funds for conducting various activities like seminars and workshops, FDP, etc.
4. **Exam conduct:** - From other funding agencies like GATE, TCS, and CAT for lending services for online entrance examinations like using the infrastructure. Computers, and other sources,
5. **M. P. Online kiosk:** -Institute also gets funds from DET under the admission process like Commission Kiosk, as Centre Expenses.
6. **Bank Interest:** Institute receives some Interest on Fixed deposits from banks.
7. **Sponsorships:** Institute receives sponsorships from different NGOs/sponsors for seminars/sponsors fest, cultural events, etc.
8. **Misc. Income:** Misc. Income from scrap, organic forming, and Canteen.

Utilization of funds & resources:

Institute has an SOP for all the purchase of materials as well as services which is followed and audited by the outside audit agency by a qualified Chartered Accountant:

1. **Regular Expenditures:** All the regular explicit salary, security, housekeeping, electricity, maintenance, mess etc. is paid out of fees collections. There is SOP for processing of the bills for optimum utilization of the funds. Different committee and internal auditor are working for contract tender, pre and post purchase approval, appointments and increments
2. **Academic-Activity:** Funding from Government, non-government agencies, and a few parts of fees

collection are used to organize academic activities like FDP, Seminar, SIGs, Baha Expenses, CSI Student Membership, The Lexicon Club, Robotics, eYantra, Hackathon, Project Expenditures, Educational Tours, ISTE Student Membership, HR Conclave, Tech fest, ACM Chapters, Membership IICChE. Sponsorship received purely use for the expenses of the specific event and a major portion of events are paid from institutes fees.

- 3. Infrastructure Developments:** Infrastructure expansions are paid from donations received in the society account and on completion, transferred to institute accounts. Further, some portion of fees is also used for the development of Infrastructure and beautification of the campus.

The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. There are 2 different Chartered Accountant Firms conducting Audits for a particular Financial Year. Internal audit is conducted by a qualified independent Chartered Accountant Firm on monthly basis. An external audit is conducted once a year by a qualified independent Chartered Accountant Firm.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The Internal Quality Assurance Cell (IQAC) is established in the institution to maintain and enhance the quality of education. The prime task of IQAC is to develop a system for conscious, consistent, and catalytic improvement in the performance of the institute. The quality assurance processes, with regard to academics, and administration are an integral part of the institutional policy. IQAC fosters a number of activities to make everyone aware of the quality assurance strategies and processes.

To ensure the efficient functioning of IQAC, the coordinator of the IQAC shall interact with various functionaries for effective implementation of IQAC and apprise the chairperson of IQAC from time to time of the progress. IQAC will meet at least once a semester and record its deliberation and suggest improvements required if any in academic/administrative functions.

IQAC has contributed significantly for institutionalizing the quality assurance strategies and

processes, the following two practices are the results of IQAC initiatives.

1. Students Award Scheme

The goal of this practice is to appreciate the work done by the teaching staff, non-teaching staff, and students of the institute and motivate them to excel in their areas of expertise. This practice would ensure continuous improvement in their performance as per the quality policy to achieve the Vision and Mission of the institute. The institute has constituted various rewards for its students & staff in the name of ***“Forte Trawl 2023”- Arise & Shine***. The mode of reward is in terms of appreciation certificates and mementos.

1. Coding Competency

We, as an institute are an early mover in initiating students to processes to help build competency in coding. We expose them to coding through classroom engagement, and practice sessions and nudge them to develop an interest in coding through online portals meant for training and evaluating students on their ability to remain focused for a long time for a set goal, problem-solving ability, competency in codifying problem definitions, developing computer codes with minimal time complexity, respect for extreme boundary conditions of problem definitions. IIST is also associated with cloud-based platforms like skill rack, GitHub, etc.

The IQAC continuously reviews and takes steps to improve the quality of the teaching-learning process. The IQAC has also contributed toward institutionalizing the quality assurance strategies and developed various processes as follows:

1. Promote industrial involvement in academic practices by organizing industrial training, industrial visits, workshops, and guest lecturers from industry experts, MOUs, etc.
2. Focus & Review the Outcome-based learning education in each program.
3. Review & focus the aptitude classes and soft skill classes for students to enhance personality and employability.
4. Review the Ecosystem developed at IIST and also focus on upcoming years
5. Review and focus on the various processes to take feedback/surveys from various stakeholders.

Other than these IQAC review and focus the works on improving the teaching-learning process and supports the adoption of Outcome-Based Education (OBE) in all programs. The Program outcomes are adapted from NBA, program-specific outcomes, and course outcomes prepared by each program considering Bloom's taxonomy in collaboration with faculty, industry experts, and other stakeholders.

The POs, PSOs, and COs attainment is measured in every session. For low attained courses, the proper action is planned and efforts are made to improve the attainments if required beyond curriculum content and activities planned and implemented, this helps in improving the employability of students.

File Description	Document
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6.5.2 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)/ membership of international networks
3. Participation in NIRF
4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

IIST has always fostered an environment keeping gender equity as one of its forefront values by providing a good representation of both genders in various committees. Equal opportunities have been extended to both- males and females- in sports, technical, and cultural activities. Gender equality policy is adopted from 2017-18 onwards.

Advocating the need for safety for women in the workplace, we at IIST conduct Expert Lectures on Women empowerment, and entrepreneurship by promoting activities related to girls like self-defense training etc.

An Internal Complaints Committee (ICC) ensures an intrepid working environment on the campus. The committee handles the challenges and issues rose by stakeholders in an integrated manner to find out the solution to the problem effectively. To maintain the confidentiality of every individual “Grievances Boxes” are placed at various locations.

Institute’s Girls’ Hostel-*Maitreyi*”-has a female warden and a faculty member as an assistant warden. For any medical emergency, an Ambulance remains available 24x7 on campus. Female washrooms have Sanitary Napkin Vending Machines and incinerators for safe disposal of used napkins.

Sessions to promote awareness about Female health & menstrual hygiene are regularly conducted.

Specific facilities provided for women in terms of:

- **Safety and security** –The campus and hostel are under 24*7 CCTV surveillance and guards are deployed all around the campus. All the buses are enabled with a GPS tracking system for the security and safety of girls in buses. The institute provides free transportation to the faculties and staff.
- **Common Rooms** – A Girls’ common room is available on the second floor near the faculty rooms, where they can sit and take lunch or use it as and when required.
- **Day care center for Infants/young children**-For working mothers of the institute, a Daycare center with all the facilities is made available on the campus. Faculty members work without tension as their children are not out of sight.

IIST is also committed to inculcating ethics and values among students and faculty. Institute celebrates National festivals, Anniversaries of the great Indian personalities, and National and International days with equal participation of both genders. The celebrations include flag-hoisting, Poster Presentations, quizzes, and Essay Writing. Eminent personalities are invited to motivate staff and students through their inspirational speeches on those days.

Commemorative days - Republic Day and Independence Day:

Every year the Institution celebrates Republic Day and Independence Day by hoisting or unfurling the national flag by DG Sir. Various formal events and march-past are organized on this day, which is followed by a “Constitution Awareness Program” in which students and staff members are made aware of their duties towards our nation and the rights given to them by our constitution. The cultural club also conducts various activities.

Festival, Jayanti, and Anniversary:

The Institute celebrates Teacher’s Day, Gandhi Jayanti, etc., and also celebrates various festivals like Diwali, Ganesh Utsav, Garba Mahotsav, etc.

International and National Day

Institute celebrates various days like National Science day, International women day, World Intellectual Property Day, World Environment day, International Yoga Day, etc

File Description	Document
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Provide Link for Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: A. All of the above

File Description	Document
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7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

At IIST, we strongly believe in the **holistic development** of the students **through Best Practices**.

To inculcate tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic, and other diversities and to promote an inclusive environment, various programs are organized regularly in the Institute.

- To sensitize the students about **constitutional obligations** such as fundamental duties, and rights and to inculcate values, the institute conducts various events.
- The institute organizes poster-making or essay writing competitions on “*Matrabhasha Divas*” and Ambedkar Jayanti based on topics of the Indian constitution.
- On “World Consumer Rights Day” an awareness session was conducted.
- As per our university scheme a subject named Indian Constitution (BT-308) is taught in all the branches, which covers the values and rights of citizens.

IIST has a variety of students from different parts of the country from North to South & East to West. Even faculty members have joined from various parts of the country and reside in the campus showcasing unity in diversity.

Festivals and important days are celebrated with great zeal at the campus to have amicable relations with each other and to maintain religious, social, and communal harmony. That's why our students respect different religions, languages, and cultures. Stakeholders feel that the campus is a second home and that all the students and faculties are like family members. Festivals like Garba, Diwali, Holi (FaagUtsav), etc. are celebrated traditionally on the campus with the participation of all the members of IIST to ensure harmony among the stakeholders.

Even in the evenings, the students of the Girls and Boys hostel along with the faculty & staff residing on the campus keep the campus lively & vibrant by organizing cultural & sports-related activities from time to time. The hostellers coming from far-flung areas enjoy the festivities with equal zeal as a larger family.

To represent the regional diversity of our country, Folk Dance competitions, traditional dress competitions, and fashion shows are organized regularly. Through these activities, students get acquainted with the cultural & demographic differences of our nation and hence develop tolerance and harmony towards

cultural, regional, and linguistic diversities.

Every year on Independence Day and Republic Day, competitions are organized highlighting the importance of the Indian constitution. Competitions like Group singing, Group dance, skits, and poetry are presented based on the theme of Patriotism and the Colors of India.

Various expert lectures related to the nation, human values, Work-Life Balance, Self Management, the role of engineers in the development of the nation, etc. are organized.

Every year on the occasion of Gandhi Jayanti, IIST organizes a “Campus Cleanliness Drive” to create awareness among Students, Faculty, and staff towards Swachh Bharat Abhiyaan. On 150th Gandhi Jayanti, in 2019, Padma Shri Kutti Menon delivered a lecture on “Gandhian Philosophy” followed by the mass reading of the third chapter of **SATYA KE PRAYOG**.

As a part of social responsibility, IIST organizes “Helmet Campaigns” in Indore and nearby areas to create awareness among citizens about wearing a helmet and following road safety rules.

File Description	Document
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Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

1. Title of the Practice – Special Interest Groups / Skill Improvement Groups(SIGs)

Objectives of the Practice –

To constant updation of knowledge, enrichment of practical skills and to bridging the gap between Academic and Industry to make students fit for 4.0 industries ready.

To provide quality education and to enhance the Employability Quotient of the students.

The Context –

In inline with NEP2020 to move towards Outcome Based Education . At the end of the programme, the

students are expected to possess skills and knowledge on par with the demands of the challenging job market. To overcome this problem institute launched SIGs in 2018-2019 to provide certified skill courses, Training, Internship, Workshops, Expert Lecture etc on latest research areas and technologies. SIGs' are based on Industry requirements on advanced technologies and tools. To enhance the industrial knowledge and latest technology experts from industry are invited through MoUs and association for giving training to our students. In last 5 year average 25 activities conducted under different SIGs'.

The Practice –

All SIGs' are based on various current trends of engineering fields. Conducted various Certificate Course, Internship, Training, Workshop, expert lecture etc under SIG's with various evaluation methods. The Industry Institute Interaction helps students to bridge the gap between industrial expectations and educational outcomes.

The Evidence of Success–

Various evidence of success is as follows:

- 1.Participation in Smart India Hackathons (SIH) and selection in final round in 2018 and won 1 Lakh Rs in 2019 and selection in eYantra robotics competition with project title Agro-Drone, in the year 2022 6 teams selected.
- 2.Students are placed in many MNCs and IT companies.
- 3.Increased participation in various MOOC certifications/ Certificates
- 4.In last five year 324 students selected for Internship and out of 324, 15 was top selection as per Internshala platform.

Problems Encountered & Resources Required-

- 1.Time constraint is a major limitation in implementing various SIGs'
- 2.Finding and bringing trained experts from other institutions/ Industry is also very challenging.
- 3.Advanced computer peripherals are required.
4. To arrange On-campus Internship is very challenging.
- 5.To organize SIG with physical projects in COVID 19 Pandemic.

2. Title of the Practice – Green Wave Movement

“Learning to live sustainably’ is the core idea of constituting “Green Waves” Club for Green wave movement to promote awareness not only inside the campus but to the wider world, to inculcate the sense of responsibility towards “**Mother Nature**” among stakeholders.

Objectives of the Practice – Green wave movement is initiated with launching of “Green Waves” Club with following objectives –

1. Conserving bio diversity by planting trees.
2. Cultivating organic vegetables and crops.
3. Say “Big No” to use of plastic bags, bottles and cans.
4. Water harvesting and water management in our day to day usage.
5. Promoting Agro-forestry.

The Context

With involvement of various stakeholders, campus is developed as eco-friendly campus with the main purposes of making the campus-Green, Pollution Free, Noise Free and with the facility of Water Harvesting and escalates the Eco-Social goal of “Go Green”. Every stake holder is make aware about the importance of nature through its “CLEAN AND GREEN” practice.

The Practice

1. Conserving bio diversity by planting trees

Plantation the varieties are chosen meticulously according to the scientific value of particular plant and then healthy saplings are procured from forests and nursery like Silver oak, variety of fruit Plants, ornamental plants which not only add the aesthetic value to the campus, prevents soil erosion, led to conserve the biodiversity and new species of birds are seen in the campus.

Vetiver/Khas Plantation around Runnel (Nala)

Through the IIST campus a runnel of around 800m length is flowing and extended to nearby villages where the water is used mainly for irrigation purpose, Vetiver/khas plantation is done around the runnel with the idea of soil conservation and to improve the quality of its water.

2. Cultivating organic vegetables and crops.

Since 2018, in order to improve air quality and resource conservation, the institute started the practice of growing organic crops in 10 acres of area which was lying idle and unused to produce food of high nutritional grade in sufficient quantity to provide healthy food & vegetables to students & staff and utilization in canteen also.

3. Say “Big No” to use of plastic bags, bottles and cans.

Increase of Plastic waste is adversely affecting environment and soil. To avoid use of plastic in whole campus, regular awareness programs and workshop to sensitize students, staff members on the hazardous impact of single use of plastics; encourage avoiding bringing plastic items in the campus.

4. Water harvesting and water management.

Following Water Conservation Facilities are available in the Institute

1. Rain water harvesting ,
2. Borewell (7 Nos') /Open well recharge(2 Nos') at various locations.
3. Construction of tanks and bunds
4. Maintenance of water bodies and distribution system in the campus

5. Promoting Agro-forestry- With 1504 different varieties of plants institute promoting Agro forestry with implementation of green campus policy and by forming Cluster of Mango Tree, Imali Tree, amla Tree, Sitaphal Tree and amrud Tree.

The Evidence of Success

The green campus is to save the environment and add the beauty to the campus, ban on plastic items, vermi culture and vermi compost has made Institute campus clean and beautiful. **Institute received certificate of Appreciation from AICTE for one student one tree campaign.** Students also participate to keep the college pollution free and regularly organizing cleanliness drives across the college. However, the Institute strives to generate minimal waste and tries to reduce the use of plastics whenever possible refilling of printer cartridges not disposed, RRR (Reduce, Recycle and Reuse Paper waste, use of vegetables in canteen and sold to employees with minimum cost. **Green initiatives are appreciated by external audit company in Green Audit report.**

Problems Encountered & Resources Required-

Expenditure including the cost incurred for maintenance of Greenery of the campus is dependent on the tuition fees. Sapling is destroyed before the plant attains a safe height.

<https://iist.indoreinstitute.com/wp-content/uploads/2022/09/Annexure-2-.pdf>

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**Response:**

Indore Institute of Science and Technology, Indore envisions an all-inclusive growth of student's i.e. holistic development to attain Intelligence-Emotional-Social-Happiness Quotient in an individual, along with their goals of academic excellence. IIST are committed to enhancing the employability Quotient of the students with Holistic Development. Towards this objective IIST introduced the concept of "**Samagra Samutkarsh Yojana (SSY)**", Institute staunchly believe in preparing the students in such a way that whilst meeting the expectations of the outer world, they are prepped to take care of their inner selves too which includes all three spheres i.e. body, mind and soul.

"**Samagra Samutkarsh Yojana (SSY)**" aims at imparting education in such a way that attains the academic and industry 4.0 requirements while bringing the feeling of tranquility, harmony, and blissfulness. At IIST, the students are provided with fair opportunities, environment, and space that help them unravel their innate abilities. The practices of Skills Improvement Groups (SIGs), syndicate system, Institute-Industrial Collaborations, Clubs, Career Development Cell, Focused Placements, and empathetic Financial Assistance Schemes cushioned with one-to-one interaction of students with Director General and easiest accessibility to him have been few of our initiatives in the same direction.

Students admitted to our programs come from varied social, economical, and cultural backgrounds. The majority of these admitted students are first-generation learners which at times pose unique academic challenges. Their social environments are challenging that have a lasting impact on their attitudes and personalities. Keeping this in mind institute offers its assistance in academic/technical, financial, social and emotional aspects through Samagra Samutkarsh Yojana.

Academic Assistance:

As the majority of the admitted students are from the schools where they teach in vernacular language, communication (written and verbal) in English is one of the major academic hurdles of the students. To overcome this problem, the institute has planned, created, and organized practical sessions on improving their communication skills through career development cell (CDC). CDC Cell also help in improving aptitude and personality development of the students. To develop and improve the technical and academic skills of the students, various students' technical clubs, such as AI Club, robotics club, etc as well as non technical clubs such as music club, dance club, sports club etc for holistic development of the students. IIST is streamlining and strengthening the innovation and entrepreneurial ecosystem in campus. Campus recruitment training also called skill-up is also imparted, in consultation with the training and placement team, training students on aptitude, communication skills, software training, etc.

Students Connect

Institute develop a two-way and transparent communication channel between students, teacher, Principal, Management representative.

Financial Assistance

The institute support and guide its students to receive scholarships from various government and non-government agencies. The institute under CSR funds provides financial support. **Financial assistant and emotional support program for students lost their parents due to COVID-19 initiated and support 19 students toward this program.** Institute provides various financial schemes to promote research ecosystem for students as well as faculty like paper publication, patent filling fee and etc. Institute also provides financial support for various certifications, international and national events like NPTEL registration fee, events registration fee, travelling cost for events and etc. Institute promotes Startup, IPR and E Cell Activities and also provides financial support. (Project to Startup under Incubation center called CARE we year mark 20 lakhs support for students as well as faculty).

Societal Responsibilities

To have a sound and conscious future generation, an institution should focus not only on learning, but also towards social responsibility. The NSS of the Institute are very efficient and meticulous in conducting various community development programs that aim towards making students a socially responsible citizen for near future.

Many Green initiatives are started under Green Waves Club as movement to conserve the nature at the campus and to inculcate the sense of responsibility towards Mother Nature among students and all the staff members.

Institute also run **school connect program** under social responsibilities and conducted various events for schools students like Apratim Pragya Pratispardha, Apratim science exhibition, Apratim Sport league, Apratim Sport league, Success Mantra by Prof Anand Kumar, Learn and Win etc.

As a part of social responsibility IIST organizes “Helmet Campaigns” in Indore and nearby areas to create the awareness among citizens about wearing helmet and following road safety rules safety. Prepare 3D Speed breaker at palasia square and IIST campus for road safety.

Every year on the occasion of Gandhi Jayanti institute organizes “Campus Cleanliness Drive” to create awareness among Students, Faculty and staff towards Swachh Bharat Abhiyaan.

Every year on Independence Day and Republic Day, competitions are organized highlighting the importance of Indian constitution. Competitions like Group singing, Group dance, skits and poetry are presented based on the theme of Patriotism and Colours of India.

Institute has visit nearby village under rural outreach program and conducted general awareness program

like health and hygiene, cyber security, women empowerment and digital payment literacy etc.

Emotional-Happiness development: Emotional health of the students is given apt attention at the institute. The syndicate system is in place that ensures the students' contact with faculty at least once in a month. During these meetings, students can discuss their academics as well as personal problems with the faculty. A professional counselor is also employed at the institute whose help may be taken by the students in need. Even two-way and transparent communication channel between students, teachers, principal and DG Sir. Institute also associates with Heartfulness. Heartfulness is a simple and subtle practice of meditation that connects each of us with the light and love in our hearts and a simple heart-based meditation practice aimed at achieving a state of balance of mind.

File Description	Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

Indore Institute of Science and Technology inculcates various processes to develop values amongst its students and prepares them to work as an agent who transforms society with their skills. Through this culture of IIST, students are equipped with deep knowledge and skills, to be a globally accepted engineer

IIST has always strived for a multidisciplinary approach in curricular and extracurricular activities with various MOUs and associations.

In the institute, industry-ready courses will be initiated through autonomy status to fill the industry-academia gap. To prepare the institute as an industry-based research center, various industry tie-up will increase.

In association with an affiliating university, the institute will be recognized as a research center.

The institute has explored and established a set-up for international level sports “Pickleball”. The institute is promoting this sport in the region and organizing competitions at various levels.

To set a high level of quality parameter institute will participate in various accreditation processes.

Activities under association with Heart fullness will increase the balance between Mind, Body, and Soul. It will also support holistic development.

Concluding Remarks :

IIST started its educational journey in the year 2003 with the objective of providing higher education in the engineering field. The Institute is running 7 UG courses and 3 PG courses with emerging areas like AI & ML. Institute is working hard toward the holistic development of students to make them socially and professionally responsible. As a result, the institute was accredited twice by NBA for CSE and ECE and also received a certificate of recognition under the “Promising” band for ecosystem development by ARIIA, MoE, and Govt. of India. Institute also focuses on skill-based, project, and task-based education under various SIGs through “*Samagra Samutkarsh Yojana (SSY)*”, and as a result, IIST is continuously in the final of SIH and in the year 2020-21, two teams won the SIH. This year again, in 2021-2022, 2 teams won the SIH-22. IIST has initiated various quality commitments like an online Feedback system for all stakeholders, display and reviewing of MST exam answer copies to the students after evaluation, display of final internal marks before sending affiliating university, biometric attendance system for teaching and non-teaching staff, adoption of ERP system, Quality food with health and hygiene in the canteen, focus on purchase SOP, and also promote meditation and yoga in association with Heartfulness Education Trust (HET). As a part of holistic development, students are actively participating in academic activities, sports activities, and social activities conducted by the institute.