



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI
Name of the head of the Institution		Dr. S C Kamate
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08333-278902
Mobile no.		9480849331
Registered Email		principal@hsit.ac.in
Alternate Email		kamateksk@rediffmail.com
Address		At, Post: Nidasoshi Tq: Hukkeri Dist : Belagavi
City/Town		Nidasoshi
State/UT		Karnataka
Pincode		591236

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr Basavaraj V. Madiggond
Phone no/Alternate Phone no.	08333278887
Mobile no.	9343454993
Registered Email	principal@hsit.ac.in
Alternate Email	basavarajvma@gmail.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://www.hsit.ac.in/NAAC/AOAR-REPORT-2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.hsit.ac.in/coe/COE-2020-21-0DD-Revised.pdf

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.03	2019	08-Feb-2019	07-Feb-2024

6. Date of Establishment of IQAC	10-Mar-2018
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Clay Modelling	20-Feb-2020	18

	01	
Awareness Program on Energy Conservation on the occasion of National Energy Conservation Week	20-Dec-2019 01	47
Industrial Visit to 3MW Solar Power Plant at Itnal, Karnataka	25-Oct-2019 01	20
Group Discussion	14-Oct-2019 01	45
Four days workshop on Basics of MATLAB and Simulink	19-Sep-2019 04	40
Guest Lecture on Role of Youth in Nation Building	04-Oct-2019 01	35
Seminar on Recent Developments in Smart Grid	05-Nov-2019 01	79
Rally for Awareness Program on Energy Conservation on the occasion of National Energy Conservation Week	20-Dec-2019 01	300
Poster Presentation	13-Mar-2020 01	26
Mini Anveshana Project Exhibition	20-Sep-2019 01	79

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Basavaraj V. Madiggond	National Energy Conservation week	Karnataka Renewable Energy Development Limited (KREDL)	2019 02	50000

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View Link](#)

10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View Uploaded File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Preparation for the extension of Accreditation for four UG programs (CSE, EEE, ECE ME) by NBA. 2. Applied for Permanent Affiliation 3. Applied for AICTES MARGADARSHAN Scheme 4. Organized awareness program on National Education Policy and institutional autonomy. 5. Preparing the Institute for Autonomy

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Providing preplacement training	A total of Ninety two students have been placed in various companies. Eleven placement programs are conducted.
Organizing activities through NSS Unit	Hundred students have been registered as NSS volunteers. Thirty five activities covering wider area with increased number of students for carrying out the social services and complying with social responsibilities.
Effective communication	Communicating important information to all stakeholders of the college through SMS. Important information are also displayed on prominent locations of the college.
Supporting faculty for research and to pursue PhD	One faculty has awarded with PhD in Mechanical Engineering Department. Fifteen faculty have registered for PhD program.
Conducting Student Satisfaction Survey (SSS)	Clarity of directions for improvements
Motivating and supporting staff for publication of papers in reputed peer reviewed journals.	A total of research articles have been published by our faculty in SCOPUS/peer reviewed journals.

Organizing seminars, expert lectures, workshops, industrial visits and internships for students.	Enhanced teaching- learning process by participative and cooperative learning
Preparation of CoE (Calendar of Events)	Effective communication of college activities to staff and students well in advance. For better participation of staff and students in all college events.
Conduct of Academic Audit by External and Internal Experts.	Maintaining transparency in teaching-learning process
Promoting Sports activities.	One student is recognized as university blue in Rifle Shooting also represented university in inter university competition. Our boys have secured third place in single zone university yoga competition.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Governing Body of the Institute	23-Mar-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	18-Dec-2018
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	18-Jan-2020
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>1. Robovidya software is used for monitoring the students attendance and performance in Continuous Internal Evaluation (CIE). 2. Biometrics for time management and staff attendance. 3. Tally software is used for managing accounts of the institute. 4. Ingenious developed software is employed for feedback collection and analysis. 5. Library automation software is used</p>
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for issuing, stock checking.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Hirasugar Institute of Technology is affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka. Very effective mechanism for ensuring well planned curriculum delivery and documentation has been established in the institute. • Normally odd semester commences in the month of August and Even semester commences in the month of February. • In line with the University academic calendar the institute COE is prepared and published for every semester indicating the academic and other activities planned for the semester. • Academic activities are conducted in well spaced and ventilated class rooms with modern teaching equipments like LCD projectors for effective teaching-learning process. • At the end of every semester workload distribution is done based on expertise and choice of faculty. • Before the commencement of the semester the Time-table of all departments is prepared and displayed at least one week in advance. • Teaching plans are prepared by all teachers in line with the Institute academic calendar. • Teachers prepare the subject notes according to curriculum specified by VTU. • The course plan of each subject is prepared by teachers which include syllabus, course outcomes, course prerequisites, course delivery plan, Assignment questions and results of previous two semesters. course plan will be provided to each student every semester. • Laboratory manuals are prepared for each laboratory. • Theory Internal Assessments (IA) are conducted in each semester centrally and department wise Laboratory IAs are conducted in line with the dates mentioned in the COE. • Student's performance in the Internal Assessment and percentage of attendance after every Internal assessment is communicated to parents through SMS. Counseling of poor performer students is done by respective subject teacher and also done at department level. • For slow learners remedial classes are conducted. • Industry persons and expert academicians are invited for special lectures/invited talks. • Feedback on teaching learning process is collected from students and analyzed for improvement. • Mentoring is done on regular basis and nearly 10-15 students are allocated for every teacher. • Covid 19 precautions and Standard Operating Procedures are taken during all Academic Activities in the institution.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Introduction to Cyber Security (Online)	Nil	15/06/2020	15	Employability	Skill Development
Design Simulation of Antenna using HFSS Simulation	Nil	26/02/2020	04	Employability/Entrepreneurship	Skill Development

Tool						
CATIA GD T	Nil	27/01/2020	15	Employability	Skill Development	
Basics of MATLAB Simulink	Nil	19/09/2019	04	Employability	Skill Development	
PCB Design Testing	Nil	19/09/2019	04	Entrepreneurship	Skill Development	
Python Programming	Nil	19/09/2019	04	Employability	Skill Development	

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Electrical & Electronics Engineering	01/08/2019
BE	Electronics & Communication Engineering	01/08/2019
BE	Computer Science & Engineering	01/08/2019
BE	Mechanical Engineering	01/08/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
ME	Thermal	01/08/2019
BE	Computer Science Engineering	01/08/2019
BE	Electronics & Communication Engineering	01/08/2019
BE	Electrical & Electronics Engineering	01/08/2019
BE	Mechanical Engineering	01/08/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	245	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Design Simulation of Microstrip Antenna using HFSS Simulation Tool	26/02/2020	78
CATIA and GD and T	27/01/2020	23
Python Programming	22/09/2019	41

Basics of MATLAB Simulink	19/09/2019	40
PCB Design Testing	19/09/2019	36
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Science & Engineering	36
BE	Electrical & Electronics Engineering	27
BE	Electronics & Communication Engineering	34
BE	Mechanical Engineering	54
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Feedback on curricular aspects is collected from stake holders particularly Students, Parents, Alumni, Employers and Teachers in very structured manner. The questionnaire were framed to get input for the qualitative improvement. Student's feedback on teaching learning is collected at the end of academic year . The questionnaires are framed mainly to assess the student's perception of quality of class room delivery and teachers participation in the process. The survey on facilities is conducted at the end of each course to assess /gauge the Student's Satisfaction level about Teaching Learning Process Class room ambience. The feedback so collected is analysed very thoroughly questionnaires wise and the inferences are drawn from the pai-charts / bar-charts used in the analysis. The data from feedback is consolidated and presented in HOD's meeting for discussion and arriving at reforms that are required to be implemented. The collective reformation/suggestions are presented to BOG/Management for implementation. The decision with regards to modification in the curriculum/syllabus is Communicated to university through respective BOS for consideration. Inter departmental electives/courses and projects are promoted among students for better understanding of concepts, skills and application of knowledge for addressing social issues. Participative learning and co-operative learning culture is promoted for better understanding through mini projects, projects, debates and competitions. Institution is having Strong Industry Institution Interaction through faculty liaisoning, Faculty liaisoning outcomes in the form of Internships , Sponsored projects, Industrial Visits, Expert lectures from industry ,Support for R D, MOUs, Placements, lab developments etc are collected through Industry Institution</p>

Interaction Cell. Employer Survey Analysis provides a measure to know the ability of the student how well their contribution is to the organization and also helps to obtain the overall impression of the students. Suggestions and Comments given by the parents and alumni are also taken into consideration for future development of institution. Apart from this Senior Exit Survey is collected from graduating students in final Semester to know about the education system in the institution. Feedback collected from them will be taken and utilized for the overall development of the Institution. Course Exit Survey is taken for every subjects at the end of the semester and analyzed for the improvement of the teaching process.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Computer Science & Engineering	276	177	177
BE	Electrical & Electronics Engineering	276	128	128
BE	Electronics & Communication Engineering	276	144	144
BE	Mechanical Engineering	552	250	250
ME	Thermal Engineering	36	5	5
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	704	5	64	0	3

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
67	67	47	22	22	47

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The mentoring system has been in existence for better and effective student-teacher relationship, guide, council and monitors the students in Academic as well as personal matters. The Mentor identifies the student's problem and gives solution. The aim of the Mentorship program is to build confidence and 1. To enhance teacher –student relationship. 2. To enhance student's academic performance and attendance. 3. To minimize student's dropout rate. 4. To monitor the student's regularity and discipline. 5. To enable the parents to know about the performance of regularity of wards.

- Each Mentor is allotted with 10 to 15 students. Mentors maintain and update the mentoring format after collecting all necessary information. Mentors offer guidance and counseling as and when they required.
- Students will have to go and meet their Mentor at least once in a month for guidance.

The students must feel free and confident in their Mentors to discuss their Academic problems. This is a continuous process till the end of academic career of student

- In some cases parents are called for counseling and their special meeting with the principal at the suggestion of the mentor
- The Mentor will note the performance of the students in tests and examinations and also the behavior of their wards.
- If a student is identified as slow learner in particular subject, then mentor would apprise the matter to concerned subject teacher.
- This system has been useful in identifying slow and advanced learner and through a careful examination of each mentor's report the college organizes 'Remedial Classes' in identified topics.
- HOD will meet all mentors of his/her department at least once in a month to review proper implementation of system. Advice mentors wherever necessary.

Outcomes of the system

- Students' attendance has been improved to a greater extent.
- Shortage of attendance problem has been solved.
- Student-teacher relationship has been improved.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
704	66	1:11

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
62	67	0	1	10

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr. S. C. Kamate	Principal	Editorial board Member of "International Journal of Advanced Thermal Science Research"
2020	Dr. S. C. Kamate	Principal	Editorial board Member of "International Journal of Thermal Science and Engineering"
2020	Dr. S. C. Kamate	Principal	Editorial board Member of "International Journal of Energy Policy and Management"

2020	Dr. S. C. Kamate	Principal	VTU nominee of Member Board of Studies of BEC, Bagalkot, and Autonomous College.
2020	Dr. S. C. Kamate	Principal	Vice-Chancellor's nominee of VTU on the Governing Council of Mangalore Institute of Technology Engineering, Mangalore.
2020	Dr. Basavaraj. V. Madiggond	Professor	Reviewer of "4th IEEE International Conference on Electrical, Electrical, communication, computer Tech. and Optimization Tech. (ICECCOT)
2020	Dr. Basavaraj. V. Madiggond	Professor	Member board of studies (EEE) VTU, Belagavi
2020	Dr. S. N. Topannavar	Professor	Reviewer of "International Journal of green Energy" Taylor Francis
Nil	Mr. M. M. Shivashimpi	Assistant Professor	Reviewer of "Biofuel" Taylor Francis
Nil	Dr. K. M. Akkoli	Associate Professor	Reviewer of "Renewable Energy" Elsevier
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
ME	Thermal Engineering	02	21/08/2020	19/11/2020
BE	Mechanical Engineering	02	05/09/2020	15/12/2020
BE	Electronics Communication Engineering	02	05/09/2020	15/12/2020

BE	Electrical Electronics Engineering	02	05/09/2020	15/12/2020
BE	Computer Science Engineering	02	05/09/2020	15/12/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The CIE of each course consists of two parts: (i) Internal Assessment (IA) Tests and evaluation of activities such as Assignments, Technical Seminars, Internships and (ii) External or Semester End Assessment. There are three internal tests conducted. The schedules of internal assessments tests are communicated to students and faculty in the beginning of the semester through institute academic calendar (CoE) which is prepared in line with the university academic calendar. The internal exam time table is displayed on the notice board a week in advance. The following reforms have been introduced for continuous evaluation of students. They are: • Scheduling of internal examination, preparing seating arrangements, listing of room invigilators for every examination is carried out centrally. • Questions are framed, in line with VTU Question Paper standard. It follows the Blooms Taxonomy and Outcome based Education in which COs are attained and learning level is assured. • There are 5 COs for each subject. The first internal test QP is prepared which covers two COs, second internal test covers next two COs and third internal test covers remaining one CO. • Department module coordinator, under the guidance of HOD, checks the standard of the QP. • QPs are handed over to the IA coordinator of the department on the day of test, after approval from the HoD in a sealed cover. • CCTV cameras are deployed at all class rooms, exam cell and laboratories to monitor the examinations. • Internal squad comprising of senior faculty oversees the smooth and fair conduction of IA theory examination. • Internal exam coordinator ensures smooth conduction of test and proper valuation of internal books. • The results of each test are strictly declared within a 4 days of the conclusion of the test. • The students can verify their respective answer sheets and discuss their queries with course coordinator. • IA marks and attendance status is informed to parents through SMS within a week. • The institution is affiliated to VTU Belagavi and CIE of students at institution level is done as per University guidelines from time to time. The University adopts Choice Based Credit System. For 2018 Scheme, IA test/Lab/Mini project/Internship/Project work phase-I/Project work phase-II are assessed with CIE of 40 and SEE of 60 marks and technical seminar is assessed with CIE of 100 marks. For 2017 scheme, IA/Lab assessed with CIE of 40 and SEE of 60 marks, technical seminar CIE of 100 marks, internship CIE of 50 and SEE of 50 marks, project work CIE of 200 and SEE of 100 marks. For 2015 scheme, all the theory and practical course evaluated for IA of 20 and theory exam of 80 marks, seminar assessed with IA of 100 marks, project work is considered for IA of 200 marks and viva-voce of 100 marks. Internship is evaluated for IA of 50 and viva-voce of 50 marks. The 2010 scheme has external marks as 100 and internal marks as 25 marks, which is average of best two internals.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Academic calendar is prepared by IQAC coordinator as per the direction of Principal and in consultation with HoD(s) in line with University CoE which is published well in advance. As the institution is affiliated to Visvesvaraya Technological University Belagavi, examinations are conducted strictly as per University CoE/ guidelines/circulars. The CoE of the institute contains dates of commencement and closure of semester, schedules of internal exams, extra and

co curricular activities etc. The teachers prepare teaching course plans according to the academic calendar and guidelines of the University. The time tables are prepared and implemented accordingly. The schedule of external examination is fixed by the University and the same is displayed on University / institute website/ notice board for students. In case of any change in the University schedule, some changes are required to be made in internal evaluation as well. In the beginning of the academic session the students are apprised of academic calendar and same is uploaded on college website and displayed on notice boards and at strategic locations. • Only head of the institution can incorporate minor changes in academic calendar which he may deem fit considering the unforeseen circumstances. • Extra / Co curricular activities viz, expert lecture, industrial visits, project exhibition, Graduation day etc are planned in the beginning of the academic year / semester and executed as scheduled. • The Principal conducts weekly review meetings on regular basis to check the implementation and progress of all the activities in the academic calendar. Based on suggestions in review meetings, some changes in scheduled activities are made if needed. University conducts semester end exams to evaluate the performance of students in (i) Practical and (ii) Theory

Practical Exam Process: • The Registrar (Evaluation) of the University sends Examination Circulars one month before the schedule of exams. • Students fill the exam forms on-line in University portal. • After consolidation of exam data, QP and stationary indent is submitted to University. • Practical exams are conducted on scheduled date as per the scheme of evaluation prescribed by the University. • Both internal and external examiners evaluate the students' performance and enter the marks in University portal on-line and marks are frozen. • Hard copies of marks sheet and answer scripts are submitted to the University

Theory Exam Process: • University has adopted on-line Question Paper Delivery System (QPDS) to distribute day wise / session wise question papers. • Question Papers are downloaded and printed under the supervision of Chief Superintendent, Internal DCS and External DCS representing University. • University flying squad visits the exam centers to ensures fair, transparent and smooth conduct of examination. • After the completion of exams, the packed and sealed answer booklets are then submitted to the University. • University declares results of both practical and theory exams at once after about one month of the completion of last semester end exam.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.hsit.ac.in/CO.php>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ME	ME	Thermal Engineering	0	0	0
BE	BE	Mechanical Engineering	126	121	96.03
BE	BE	Electronics & Communication Engineering	56	55	98.21

BE	BE	Electrical & Electronics Engineering	43	42	97.67
BE	BE	Computer Science & Engineering	50	49	98.0
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://hsit.ac.in/NAAC/C2/SSS-Analysis-Report-2019-20.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	00	NIL	0	0
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
An invited talk on "IPR Practices in industries its Benefits"	Institute Level (All Dept.)	15/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Project on "VILLAGE WATER AND AIR QUALITY MONITORING SYSTEM"	Prof.P.V.Patil and his Project Associates	KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY	22/09/2020	Best Project of the Year under 43rd Student Project Programme of KSCST, Bengaluru, GoK.
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Mechanical Engineering	Aerodynamics Laboratory	Karnataka Science Technology Promotion Society's (KSTePs)-Visio	Nil	Nil	18/01/2020

		n Group on Science and Technology (VGST), Dept. of IT,BT and ST,Govt of Karnataka			
Mechanical Engineering	Simulation Coding Laboratory	Karnataka Science Technology Promotion Society's (KSTePs)-Vision Group on Science and Technology (VGST), Dept. of IT,BT and ST,Govt of Karnataka	Nil	Nil	18/01/2020

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
		10000

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
EEE	0
MECH	0
ECE	0
CSc	0

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Computer Science and Engineering	7	0.94
International	Mechanical Engineering	1	4.98
International	Electrical and Electronics Engineering	2	6.67
International	Electronics and Communication Engineering	9	5.94

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference

Proceedings per Teacher during the year

Department	Number of Publication
Computer Science and Engineering	8
Mechanical Engineering	2
Electrical and Electronics Engineering	0
Electronics and Communication Engineering	5
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Thermal property characterization for enhancement of thermal conductivity of hybrid polymer composites	Prof. Gurushanth B. Vaggar, Dr. S.C. Kamate	International Journal of Materials Today: Proceedings	2020	1.3	Hirasugar Institute of Technology, Nidasoshi	1
A study on thermal conductivity enhancement of silicon carbide filler glass fiber epoxy resin hybrid composites	Prof. Gurushanth B Vaggar Dr. S.C. Kamate , prof. Pramod V. Badyankal	International Journal of Materials Today: Proceedings	2020	1.3	Hirasugar Institute of Technology, Nidasoshi	0
Optimization of Nozzle Geometry in the Modified Common Rail Direct Injection Biodiesel-Fuelled Diesel	Prof. M. Shivashimpi, Dr. N. R. Banapurmath, Dr. S. A. Alur Prof. B. M. Dodamani	international Journal of Ambient Energy	2019	2.7	Hirasugar Institute of Technology, Nidasoshi	0

Engine						
Comparative study of various biofuel combinations derived from agricultural residues on the performance and emissions of CI engine	Dr.K. M. Akkoli,Dr. P. B. Gangavati, Dr.N. R. Banapurmath Dr.V. S. Yaliwal	International Journal of Sustainable Engineering	2019	Nil	Hirasugar Institute of Technology, Nidasoshi	1
Multimodal Emotion Recognition using Facial Expressions, Body Gestures, Speech, and Text Modalities	Prof.Mahesh G Huddar	International Journal of Engineering and Advanced Technology (IJEAT)	2019	Nil	Hirasugar Institute of Technology, Nidasoshi	1
Multi-level Context Extraction and Attention-based Contextual Inter-modal Fusion for Multimodal Sentiment Analysis and Emotion Classification	Prof.Mahesh G Huddar	international Journal of Multimedia Information Retrieval	2019	Nil	Hirasugar Institute of Technology, Nidasoshi	4
Multiple Feature Optimization and Multimodal Contextual Fusion for Sentiment Analysis and	Prof.Mahesh G Huddar	Computational Intelligence	2020	Nil	Hirasugar Institute of Technology, Nidasoshi	4

Emotion Classification						
Attention-Based Word-Level Contextual Feature Extraction and Cross-Modality Fusion for Sentiment Analysis and Emotion Classification	Prof. Mahesh G Huddar	International Journal of Intelligent Engineering Informatics	2020	Nil	Hirasugar Institute of Technology, Nidasoshi	2
A Survey on Pervasive Computing Over Context-Aware System	Prof. S G Gollagi et al.	Transactions on Pervasive Computing and Interaction (Springer)	2020	Nil	Hirasugar Institute of Technology, Nidasoshi	3
Research Outlook and State-of-the-art Methods in Context Awareness Data Modeling and Retrieval.	Prof. S G Gollagi et al.	Evolutionary Intelligence (Springer)	2019	Nil	Hirasugar Institute of Technology, Nidasoshi	5
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Attention-Based Word-Level Contextual Feature Extraction and Cross-Modality Fusion for Sentiment Analysis and Emotion Classification	Prof. Mahesh G Huddar	International Journal of Intelligent Engineering Informatics	2020	Nil	2	Hirasugar Institute of Technology, Nidasoshi

Classification						
Multi-level Feature Optimization and Multimodal Contextual Fusion for Sentiment Analysis and Emotion Classification	Prof. Mahesh G Huddar	Computational Intelligence	2020	49	4	Hirasugar Institute of Technology, Nidasoshi
Multi-level Context Extraction and Attention-based Contextual Inter-modal Fusion for Multimodal Sentiment Analysis and Emotion Classification	Prof. Mahesh G Huddar	International Journal of Multimedia Information Retrieval	2019	18	4	Hirasugar Institute of Technology, Nidasoshi
Multimodal Emotion Recognition using Facial Expressions, Body Gestures, Speech, and Text Modalities	Prof. Mahesh G Huddar	International Journal of Engineering and Advanced Technology (IJEAT)	2019	14	1	Hirasugar Institute of Technology, Nidasoshi
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	7	141	4	16
Presented papers	17	4	0	0
Resource persons	0	3	0	0

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Food Distribution at Flood Relief Camp on 09-08-2019	NSS	10	63
Shramadhana work During Induction Program on 13-08-2019	NSS	10	77
Distribution of daily household items at flood victim area on 17-08-2019	NSS	8	80

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
One Student One Tree	Appreciated by Prof.Anil Sahashrabudde, Chairman, AICTE, New Delhi	AICTE, New Delhi	540

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachha Bharat	NSS	Shramadhana work During Induction Program on 13-08-2019	10	77

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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NIL	00	NIL	00

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research

facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
15 hr Course on "Introduction to cybersecurity"	On-the-job training	Cisco Networking academy	27/06/2020	30/06/2020	31
Technical talk on "Introduction to AI and ML "	On-the-job training	Mr Gopalkrishna K-Tech innovation Belagavi	20/09/2019	20/09/2019	68
Realisation of academic concepts in Industry	Industrial Visit	Rajeev and company, Belagavi	12/11/2019	12/11/2019	36+02
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
3MW Solar Power Plant at Itnal	29/03/2019	Human Resource Sharing, Industry Visit, Internship/Training	22
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
37.06	34.28

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing

Campus Area	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Nil
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
e-LIB	Fully	16.2	2004

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	37734	14459964	200	65186	37934	14525150
Reference Books	3780	699080	93	33949	3873	733029
e-Books	16800	343629	0	141375	16800	485004
Journals	116	120450	11	2855	127	123305
e-Journals	9811	1030889	0	424125	9811	1455014
Digital Database	1	28000	0	13570	1	41570
CD & Video	500	8000	0	0	500	8000
Library Automation	1	71800	0	6500	1	78300

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof. S G Gollagi	System Software Compiler Design	https://www.YouTube.com/channel/UCmHGj-8lJ6UmgRlvtLMEcPQ	15/04/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	398	18	398	0	48	21	30	50	0

Added	10	0	10	0	0	0	0	4	0
Total	408	18	408	0	48	21	30	54	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

54 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
• i-Ball-PD5548U digital writing pad	https://hsit.ac.in/itinfrasturcture.php
•Sony make HANDY CAM PJ50E with all accessories,	https://hsit.ac.in/itinfrasturcture.php
• Collar/ Wireless Microphone	https://hsit.ac.in/itinfrasturcture.php
• CCTV Cameras NVR	https://hsit.ac.in/itinfrasturcture.php
• Micromax make 50'' LED TV Speakers	https://hsit.ac.in/itinfrasturcture.php
• Logitech-BCC950 Conference Camera	https://hsit.ac.in/itinfrasturcture.php
• i-Ball 2.0 Speaker	https://hsit.ac.in/itinfrasturcture.php

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
64.94	56.58	31.04	28.58

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Physical and Academic Facilities Laboratories Maintenance: Every Lab In-Charge regularly checks the resource available in their custody and verifies its working condition. Accordingly, report of non-working equipment is communicated to the respective authority. The follow up of the maintenance equipment or resources is taken up immediately after the approval of the concerned authority. The annual maintenance is carried out at the end of every academic year after thorough inspection of the equipment. Depending upon the maintenance requirement, quotations are invited and the detailed procedure is followed to get work done through respective Department. After the maintenance work of particular equipment, satisfactory remark is taken from the concerned In-Charge. Utilization: The laboratories are made available for students and staff for carrying out their Academic and research work. The Computer Laboratories are also utilized to conduct online Banking Examinations, Competitive Examinations like GATE, COMED-K etc. L Library Maintenance: Institute has well maintained Computerized Library it is equipped with e-Lib ILMS with bar code reader and digital accounting. Central library has its dedicated human resource. Utilization: There is facility of well maintained digital library for enrichment of information. Exclusive reading rooms are

available for both girls and boys. Class Rooms and Seminar Halls Maintenance: Institute has adequate number of spacious well maintained class rooms and seminar halls with ICT facilities. The maintenance of furniture and ICT facilities are taken care by dedicated staff members of the Institute. Utilization: The classrooms/Seminar halls are effectively utilized for Teaching-learning process, Invited -Talks, seminars, workshops, Conferences etc. Supporting Facilities Sport Complex M Maintenance: The sports complex is well maintained by dedicated staff headed by physical director. The follow up of the maintenance of equipment is taken up immediately after the approval of the concerned authority. Utilization: Well-Equipped Multi-Gymnasium and Indoor sports facility are available in the campus for overall development of the students. Students can also avail the facility of yoga training and practice in the campus. The Indoor and outdoor facilities are also utilized for Inter and Intra-collegiate competition. Transportation Maintenance: The maintenance of transport facility is taken care by skilled staff members of Automobile section and periodic servicing of vehicles have been done through authorized service Centers. Utilization: The institute has a fleet of vehicles running between nearby towns and the Campus to help the students commute from various parts of the region. Power Supply Maintenance: The Gen-set and all supporting equipments are regularly maintained for better performance by dedicated Electrical maintenance cell. The Servicing of DG-sets get done by Authorized service dealers on regular basis. Utilization: Physical facilities are supported by uninterrupted electrical supply with 190KVA Diesel Generator backup for all classrooms, seminar halls, Laboratories ,hostels etc. Drinking Water Facilities Maintenance: The regular repair and maintenance of RO water plants is taken care by dedicated maintenance cell of the Institute. Utilization: RO water plants with 2500 litter/hour capacity spread across campus such as Departments ,Boys and Girls hostels, Library, Mess, Canteen, Gym etc for drinking purpose . Garden Maintenance: The college garden is

<http://www.hsit.ac.in/coldoc/Maintenance-of-Campus-Infrastructure.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institutional scholarship	2	25000
Financial Support from Other Sources			
a) National	Post Metric scholarship scheme	445	8020190
b)International	00	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Orientation programme on Training and Placement Activities (Soft Skill Development)	30/08/2019	220	Mrs. Ragini, Director Innovations Unlimited Training Services, Bengaluru

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Expert Lectures/Seminars/Workshops for Guidance for Competitive examination and Career Counselling.	204	275	3	92
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Tech-Fortune Technologies, Bengaluru	200	13	Wipro Limited (VTU CPC)	64	1
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	2	Hirasugar Institute of Technology, Nidasoshi	BE (Mechanical Engineering)	Ramaiah University of Applied Sciences	M. Tech (Robotics Engineering)
2019	1	Hirasugar Institute of Technology, Nidasoshi	BE (Mechanical Engineering)	M S Ramaiah Institute Of Technology, MSRIT	M.Tech (Industrial Engineering)

				Post , ,Msr Nagar, Bangalore	
2019	1	Hirasugar Institute of Technology, Nidasoshi	BE (Mechanical Engineering)	Presidency College, Bengaluru	Master of Business Adm inistration
2019	1	Hirasugar Institute of Technology, Nidasoshi	BE (Mechanical Engineering)	Ramaiah University of Applied Sciences	M.Des (Product Design)
2019	1	Hirasugar Institute of Technology, Nidasoshi	BE (Electrical & Electronics Engineering)	CMR Institute of Technology, Bengaluru	M.Tech (VLSI Design and Embedded System)
2019	1	Hirasugar Institute of Technology, Nidasoshi	BE (Electrical Electronics Engineering)	SDM College of Engineering Technology, Dharwad	M.Tech (Digital Electronics)
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
Any Other	2
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Athletics(Running 100mts)	Institute Level	31
Shot Put	Institute Level	58
Football	Institute Level	60
Eco friendly Ganesha making competition	Institute Level	37
Cooking without fire(Computer Science and Engineering)	Institute Level	41
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5.3 – Student Participation and Activities

5.3.1 – 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	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nil	NIL	Nil	0	0	00	NIL

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

HSIT is committed to provide overall development of the students by educating them in state of art infrastructure, promoting leadership and organizational skills through different initiatives taken at the institute level. A student council at the institute level is formed wherein students from all classes of society can represent through different bodies/committees. Presence of Active

Student Council: The role of Student Council at the Institute level is to contribute for the overall development of students by set of Institute level activities. It acts as a bridge between Institute administration and students.

Student Council has following composition: 1. General Secretary 2. Sports Secretary 3. Cultural Secretary 4. Ladies Representative 5. Technical Secretary 6. NSS Secretary 7. All Class Representatives (CR's) Role of Student Council:

The roles and responsibilities of Student Council (SC) mainly include smooth conduction and organization of events and maintaining academic ambience.

Members of SC are actively involved in planning and executing technical, social, techno-social, sports and cultural activities initiated by the institute. SC coordinates functioning of departmental student associations in the institute and provides necessary inputs for overall development of

students. SC is actively engaged in grooming of newly admitted students and guiding students as per their needs. SC regularly arranges sessions on 'Code of

Conduct' and sensitization programs. 1. Anti-Ragging Committee: College Anti-Ragging Committee headed by Principal, HOD's of all departments, one senior faculty from each department, Police officer of nearest police station and

students members. The work of this committee is to avoid ragging cases in the campus. Senior students are actively involved in making HSIT campus ragging

free. 2. NSS: HSIT has active NSS cell which in collaboration with VTU, Belagavi organizes Blood donations camps, Shramadhana Programs, Village Visits and Camps, Celebration of National Festivals etc. 100 NSS volunteers are

actively involved in the activities. 3. Students Association: Every department has Student Association led by a group of 10-15 students. This group ensures involvement of all other students of department in organizing activities

throughout the year. 4. Hostel and Mess Committee: The Committee is formed to check the quality of the food and facilities provided in the hostel for the student residing in Hostel and availing Mess facility. Students are also the

member of this committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The greatest asset of any institute is its alumni. A good institute can measure its worth by its alumni. Our Alumni are performing extremely well at various places and positions throughout the world. Alumni are the most important stakeholders of our Institute. Therefore the institute has established an "ALUMNI ASSOCIATION HIRASUGAR INSTITUTE OF TECHNOLOGY" on 11th February 2011 under Karnataka Society Registration Act, 1960 with registration No:

D.R.L/S.O.R/BGM/1245/2010-11. Every pass out student is eligible for life time membership and can become a member by completing registration process. Alumni association HSIT has organizational structure as President, Vice-Presidents, Secretary, Joint Secretary, Treasurer and members. It has total 17 members on this committee. The office bearers of this committee keep the track of our alumnus and also communicate happenings in the institute. These committee members meet twice in a year. Becoming the member of alumni association is one of the easiest ways to reconnect, give back to the institute, and serve as a springboard for further involvement. Alumni Association HSIT has organized 5

alumni meets in the campus, two alumni meets at Bengaluru and one alumni meet at Pune successfully. Alumni meet provides them the platform to share their past and present experiences as well as recalls their memories in the institute with their teachers, juniors and friends. The involvement of alumni in supporting and providing contributions voluntarily to this institute is important for maintaining and expanding an institute's development. By establishing channels that can facilitate closer ties between the alumni, students and institute, it can provide crucial benefits in enriching the student's experience while being at the institute. Our alumni are serving their alma mater in following ways-

- Participation in the programs like seminars, workshops, etc, as a resource person.
- Delivering expert lectures regularly and guiding the students about new trends in the work environment, skill enhancements, professional ethics and catering student's need of career .
- Evaluating various technical events as jury member.
- Helping their juniors for getting the placements.
- Suggesting modifications in the curriculum.
- Donating books to the students.
- Giving cash prizes to the meritorious students.
- Sponsoring the student's projects.

As every alumnus has experienced his/her life at institute through different phases before graduating through unique and different model of HSIT, hence they find the potential for contributing back for the development of the institute and support the institute's reputation.

5.4.2 – No. of enrolled Alumni:

267

5.4.3 – Alumni contribution during the year (in Rupees) :

176700

5.4.4 – Meetings/activities organized by Alumni Association :

02

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization: The institution functions with the method of decentralized governance system. The head of the department has been given an authority in deciding the activities and delegating the responsibilities to the staff members. The department decides on timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, guest lectures and workshops and organizes necessary Industrial visits and In-plant trainings, Internships and MoUs. **Participative Management:** The institution is functioning effectively with the culture of participative management which enables the faculty and students to give their opinion and suggestions for improvement. All the departments of the college function under the direct supervision of the Principal. Day-to-day academic activities of the departments are taken care of by the respective HODs. Principal conducts weekly meeting with all HODs/Conveners. HODs / Conveners will conduct the meeting with the concerned members to discuss various issues and resolutions made will be communicated to Principal for final decision. The Principal coordinates with the departments, administration and management. Participative management provides extensive scope for having cooperation among the departments and ensures the quality of planning and implementation of all the activities in the institution uniformly and as a team. Case study of Decentralization and Participative Management in the Institute Weekly Academic Review: Weekly academic review committee is responsible for drafting, regulating and

implementing different academic policies. It is meant for smooth and uniform conduction of academics throughout the year. Composition: It is headed by the Principal and Heads of all the Departments are members and IQAC coordinator is member convener. Activities conducted: It prepares the academic calendar of the institute which is in line with University's academic Calendar that includes curricular, co-curricular, extracurricular activities and monitors the teaching learning process. The committee reviews weekly attendance and syllabus coverage report of all departments. Ensures the smooth conduction of practical's and lectures. The HOD supervises all academic activities of department and ensures conduct of academics as per schedule/Time Table. Outcome: The meetings are conducted weekly at institute level and department level to discuss the academics related activities. • Training Placement cell The Training and Placement Office (TPO) has started marching towards the goals with impressing footprints. The entire idea of training placement cell is to prepare graduates being in college, who are not only well equipped in fundamental engineering subjects but also have the ability to integrate all their skills they come across, to apply them in practical situations and also have professional skills to effectively compete with today's era with project management, effective communications, logical innovative thinking skills. More than 277 final year students trained on their skill development, personality development and professional trainings. Guest Lectures of Eminent personalities arranged for students those who are interested in administrative services. Started in- house GATE coaching for students opting for higher education. 92 students have been placed in the year 2019-20 in different service providing and core companies with an average salary package of 3.5lakhs per annum • The institute has registered Alumni Association.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	The Institute has the distinct feature of giving quality and affordable education to the rural and needy students in a pollution free, spiritual environment. The Institute is spread over on a lush green campus of 48.26 acres and all the amenities are provided for the overall development of the students. The teaching is student centric and faculty adapts to the diversified student levels. Counselling is conducted for the slow learners and the extra attention is given to them. Mentorship concept is in practice and a group of 10 -15 students are assigned to each teacher. The Institute organizes special talks by industrial persons, academicians, religious heads, eminent scientists, project competitions for the benefit of the students.
Industry Interaction / Collaboration	The Institution has established 14 functional MoU with the Industries. One

Industry linked laboratory i.e., IoT laboratory has been established in the department of Computer Science Engineering. Internships and Industrial visits are organized for Students. Each department organizes expert talks/lectures by the Industry experts/alumni entrepreneurs. Industrial persons are invited as jury members for the project competitions and Internship examinations conducted by the University. They give valuable suggestions for the improvements in the product development and the industrial culture.

Human Resource Management

The Institution has its service rule book approved by management. It firmly follows the service norms of Government of Karnataka. The institute works for 8 hours with 1hour lunch break. The benefits like PF, CL, EL, RH, Medical and Maternity leaves etc are provided to all eligible staff. Training and development programs are arranged regularly. Faculty members are supported for higher studies in the fields of specialization in reputed institutes and University. Teaching faculty is provided with financial support for attending the FDPs and Conferences outside the Institution as well for publishing their research findings in peer reviewed journals.

Library, ICT and Physical Infrastructure / Instrumentation

The association with VTU (VTU Consortium) to share digital content under licence is continued by renewing the licence annually. The library has a total of 37934volumes and 9811 e-Journals. Separate reading rooms for boys and girls are available with a seating capacity of 100 each. All the classrooms, tutorial and seminar halls are equipped with ICT facilities. There are 398 computers with student to computer ratio of 3:1 and are connected to 50MBPS leased line (1:1) through LAN and 24X7 secured Wi-Fi with 36 access points. 30 PCs of latest configuration are added to Internet Laboratory. The Institute is having sports ground and complex for outdoor and indoor sports and independent Multi-Gymnasium. An Amphi theatre measuring 1113 sq.m. is available for conducting cultural events.

Research and Development

The institution is engaged in research and development with five VTU

approved research centres to facilitate faculty to pursue research activities and executing sponsored projects. There are ten doctorates in the institution and 18 faculties are pursuing Ph.D. The faculties are encouraged to publish the research works in peer reviewed reputed international journals like Elsevier, SCI journals etc by giving an incentive of Rs 5000/- cash prize. The faculties are encouraged to submit project proposals for external funding like AICTE, VGST, DST etc and the Institution supports the funded projects with an additional institute share of 15 percent of the granted amount. International conferences are being organized every year in the month of July. The Institution has subscribed to 9811 International journals. Simulation coding lab and Aerodynamics lab has been established in mechanical engineering department. 21 Research papers are published by our faculties in peer reviewed journal in academic year 2019-20.

Examination and Evaluation

Semester End Examination is conducted by VTU. Continuous Internal Evaluations (CIE) is conducted in line with university examination pattern. The teaching faculty sets the question paper as per the university question paper pattern conforming to the Bloom's Taxonomy levels as per the NBA guidelines as well augmented by assignments. The Internal evaluation question paper is reviewed by module coordinator and the head of the department. The faculty member evaluates the answer books as per the scheme of evaluation prepared by respective course coordinator. The faculty member justifies the marks scored by the students who seek clarification. CIE results are announced as per Calendar of Events.

Teaching and Learning

The institution is following student centric Teaching and Learning methods since its inception. The faculty continuously improves the delivery system by Plan, Deliver, Check and Act cycle. The faculty identifies outcomes to be realized by the students after completing the course. They carefully design the course delivery content, student participation activities and the assignments to be completed by the

students during the semester for every course. A continuous evaluation of the students' progress has been adopted. As a part of continuous evaluation process three internal assessment tests are conducted apart from other methods of evaluation by the faculty and slow learners are identified and mentored.

Curriculum Development

The curriculum is prescribed by the affiliating university, i.e. Visvesvaraya Technological University, Belagavi (VTU). The curriculum undergoes a revision once in four years. The institution encourages our faculty / department to participate and contribute to enrich the curriculum during the course of its revision. This is carried out by communicating to the university during the process of preparing and finalizing the revised /new curriculum. Further, the institution collects the opinion/suggestions pertaining to curriculum / syllabus by taking a feedback from stakeholders once a year. The opinion/suggestions so collected are consolidated and forwarded to the university for enriching and updating the content to meet the recent trends in the industry.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<p>ICT facility is used in the process of planning college-events and activities, institute uses personal e-mails. Important notices and reports are also circulated via e-mails and whatsapp groups.</p>
<p>Administration</p>	<p>The Administration of the College functions with E-governance system at College level. Even though the college is established in backward taluk, still the college tries their best to keep in touch with latest tools of administration with available facilities in hand. With the help of developed technology, college staff uses the available tools for administration purpose. Such as use of Smartphone with inbuilt social app like Gmail and WhatsApp. It helps to provide the brief notice of any event to be happened on college WhatsApp Group for awareness and of smooth functioning of the same. The college have Bio-metric attendance for teaching and nonteaching</p>

	staff. The college campus is equipped with CCTV Cameras at very place of need.
Finance and Accounts	With the aim to provide immediate information in finance and Accounts i.e. "Single Click Accounting", this section of College is partially e-governed. The college uses the Tally ERP 9.0 for the transparent functioning of accounts department. The same software is used to generate various reports like Consolidated Day Book, General Day Book ,Daily Cash Collection report.
Student Admission and Support	Student admission for the year 2019-2020 is partially implemented online. As the admission process is semi-online, admission forms are accepted through both online as well as offline mode. Students submit the required documents at respective sections. The software is also used for student support like issuing Transfer Certificate, Bonafide certificates. Admission Forms, Issue of ID Cards, Library cards and Challan through the software.
Examination	The College has the separate Examination Cell with equipped ICT tools necessary for examination purpose. As per the requirement of Examination department all the necessary equipments are provided by the college such as Separate Desktop, printer, reprography and Internet Facility for online procedure of Paper Downloading and further activities for exam purpose.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
Nill	Prof. Shashikant Walki	Photophysical Studies on D-?-A Imidazole Derivative for Organic Dye Sensitized Solar Cell Application	--	5000
2019	Prof.S G	Research	--	5000

Gollagi	Outlook and State of the art Methods in Context Awareness Data Modeling and Retrieval.
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
Nil	NIL	NIL	Nil	Nil	Nil	Nil

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Current Practices and Critical Issues for OBE in Engineering Education /Institutions	2	27/01/2020	07/02/2020	10
Machine Learning and Data Analytics	10	08/01/2020	11/01/2020	04

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
1	1	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Supported for higher studies, Group insurance scheme, Maternity leave, Medical Leave, Casual Leave, EPF, Soft Loan facility is available for institute staff through Cooperative Society.	Group insurance scheme, Maternity leave, Medical Leave, Casual Leave. Vacation. EPF, Soft Loan facility is available for institute staff through Cooperative Society. Medical facility with	Grievance Redressal Committee: To provide a mechanism to students for solutions for their grievances, Grievance Redressal Committee is formed. Internal Complaint Committee(ICC):

Medical facility with full time resident Doctor is available in the campus. Staff quarters facility for teaching and non-teaching staff in the campus.

full time resident Doctor is available in the campus. Staff quarters facility for teaching and non-teaching staff in the campus.

Anti-Sexual Harassment Committee/Internal Complaint Committee (ICC) is formed to uphold the Constitutional mandate to combat sexual harassment of women and ensure that human rights of all those who fall within its jurisdiction are safeguarded. Internal complaints committee was formed in August 2016 to act as a vehicle to address the issue of sexual harassment of women in the institute. Objectives of this ICC are to... • Provide knowledge about prevention of sexual harassment of women at workplace. • Sensitize all stakeholders to recognize that sexual harassment can cause mental and physical harm to the victim. • Promote dialogue about sexual harassment in the academic community. • To provide guidelines for addressing sexual harassment. Hostel and Mess Committee: The Committee is formed to check the quality of the food and facilities provided in the hostel. Group Insurance facility is provided to the students. Scholarship is provided to the SC/ST/OBC students. Financial assistance in the ascending order base on merit from Rs.5000/- to20,000/- is given. Education loan facility is facilitated through the Institution. Financial assistance/bus facility will be provided to the students for attending the curricular/ extra-curricular activities outside the institution

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

6.4.1 Institution conducts internal and external financial audits regularly For financial management, the institution has three types of accounts Receipts Payments, Income Expenditure and Balance Sheets. Each and every transaction is supported by the vouchers. All bills on recurring non-recurring expenses are disbursed through cheque payment. External Audit: The Accounts of the college are audited by the external approved Chartered Accountant. Internal Financial Audit: Internal financial audit is a continuous process and is monthly done by Accounts department of the Institute. The expenditure incurred on all heads of accounts are read and approved in the monthly meeting of Advisory Committee of the Trust.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Shri. Gangadhar Kapse	6500	- Prize for securing highest marks in BE final year.
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6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Visvesvaraya Technological University, Belagavi	Yes	Principal
Administrative	Yes	Visvesvaraya Technological University, Belagavi	Yes	S.J.P.N Trust

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Felicitation of Parents of Toppers. 2. Parents Meet 3. Central counselling. 4. Counselling by Class Teacher.

6.5.3 – Development programmes for support staff (at least three)

NIL

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Preparation for the extension of Accreditation for four UG programmes (CSE, EEE, ECE ME) by NBA. 2. Applied for Permanent Affiliation 3. Applied for AICTES MARGADARSHAN Scheme 4. Organized awareness program on National Education Policy and institutional autonomy. 5. Preparing the Institute for Autonomy 6. Registered for Unnat Bharat Abhiyan with prior adaptation of villages.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Four days workshop on Basics of MATLAB and Simulink	05/08/2019	19/09/2019	22/09/2019	40
2020	Poster Presentation	06/01/2020	13/03/2020	Nil	26

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Poster Presentation on "Women Empowerment"	13/03/2020	Nil	14	12
International Women's Day Celebration	06/03/2020	Nil	80	10
Cooking Without Fire	28/02/2020	Nil	45	25
Annual Sports Meet-2020	15/02/2020	Nil	30	50
Guest Lecture on " Role of Youth in Nation Building"	04/10/2019	Nil	23	12
Talk on Diabetes Awareness	24/09/2019	Nil	40	20

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
37.64

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
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Physical facilities	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Any other similar facility	Yes	1
Provision for lift	No	Nil
Braille Software/facilities	No	Nil
Special skill development for differently abled students	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	6	Nil	23/10/2019	1	Voluntary Blood Donation Camp	Saving the lives of needy people	110
Nil	Nil	5	09/08/2019	1	Food Distribution at Flood Relief Camp	Humanity	73

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
NIL	Nil	NIL

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Dr. B.R.Ambedkar Jayanti	14/04/2020	Nil	50
Presentation on Preamble of Indian Constitution By Sri. M.B. Zirali	11/02/2020	Nil	65
Visit to Gaushala	27/09/2019	Nil	50
Short Cinema Show on Ethical Values	22/08/2019	Nil	80

Patriotism by Prof. Mahesh Huddar Prof. Mahesh Hipparagi			
Presentation on Human Relations Moral Values by Prof.B.G.Patil , S.S.Arts T.P. Science College Sankeshwar.	20/08/2019	Nil	76
Celebration of Sadbhavana Diwas	20/08/2019	Nil	120
Independence Day Celebration Visist to flood affected areas involving in relief operations.	15/08/2019	Nil	75
Campus View Visit to Sri. Durdundeshwar Math Nidasoshi Ashirvachana by Shri. Shivalingeshwar Mahaswamiji.	13/08/2019	Nil	78
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Organized Eco Friendly Ganesh Making competition 2. Organized Go Green Program by making bags with paper 3. Celebration of world Environmental Day by organizing Plantation Program 4. Plastic Free Campus Program on eve of 150th Gandhi Jayanti and 115th Lal Bahadur Shastri Jayantiya celebration. 5. Waste Management and Environment Protection 6. Awareness Program on Waste Plastic and its ill Effects

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice I: Title: "Techno-vision", a State level project and paper presentation competition for Diploma students. Objectives: 1.To encourage students' talent. 2.To promote interaction with Engineering Staff and Students about career. 3.To build confidence towards higher studies. The Context: To resolve contemporary issues through recognized students projects and motivating more students towards higher education. The Practice: The "Techno-vision" is organized every year by inviting Polytechnic students across Karnataka, Maharashtra and Goa states. The whole process is transparent by the invited Judges from relevant organizations. The winners of various events are awarded by cash prizes and certificate of merit. Evidence of Success: In the 2019-20 academic year, 10 Polytechnics and around 250 students across the state have Participated and prizes more than Rs.50,000 were distributed. The event is succeeding to ignite the Diploma students to opt higher education. Problems encountered and Resources required: The major problem encountered was academic overlap of degree and diploma exam schedule and it has been resolved by organizing event at least one month advance to the Diploma Board Exams. The resources required: Well-equipped labs, ICT class rooms/campus, Manpower, Accommodation, Boarding and Transportation. Best Practice II: Title: "Soft-loan

through Employees Cooperative Credit Society". Objectives: 1. To provide the financial support with minimal rate of interest to the needy and poor employees in critical conditions. 2. To reduce the financial imbalance among the employees for self-development. The Context: In the view of economical upliftment of poor employees, the said society is necessary. The Practice: The "Employees Cooperative Credit Society" has been established in the year of 2007 with 123 members by paying Rs.10 as a membership fee as per the Govt. Society Act. The every member will deposit minimum amount from their salary on monthly basis. Based on the request and need of the applicants, the loan will be sanctioned immediately, easily and friendly. The dividend will be shared among all members every year. Evidence of Success: In the 2019-20 financial year about 22 needy employees with loan amount of Rs. 37,20,000/- have been benefited by this practice. Problems encountered and Resources required: The problem of every month amount requirement of needy employee will be resolved on the basis of humanity and compassion. The resources required: One exclusive accountant, Computer System, Stationery and Space.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.hsit.ac.in/NAAC/C7/7.2-2019-20.pdf>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Title: Financial Assistance to Merit Students: Institute is run by SJPN Trust under the holy shrine the "Siddha Sansthan Math" Nidasoshi having a glorious history of past 300 years and is headed by the 10th pontiff Shri Shivalingeshwar Mahaswamiji. The very purpose of the institute is imparting technical education with holistic approach to the rural youth, which helps in uplifting the families of rural farmers. Purpose of this scheme is to provide financial assistance to meritorious needy and deserving students. "Financial Assistance Scheme" will be applicable to all the regular students of HSIT fulfilling prescribed criteria. **Process:** Students at the time of admission will pay fees as prescribed by CET/COMEDK/Management. After the announcement of university results. The students passed in First Class and FCD will submit an application to the Principal for Sanction of Scholarship. After scrutiny of applications based on merit in the ascending order scholarships/Financial Assistance of Rupees from 5000/- to 20000/- are awarded every year. In the academic year 2019-20 total 02 meritorious students have benefited. **Title: Group Insurance for Staff and Students:** Group Insurance facility is provided to all the students and faculty. These policies are issued under the name of the educational institution and the claim is paid out to the guardian or parent of an affected student/staff. Once the institution purchases a Student Safety Insurance/Janata Personal Accident-Group Policy (Staff), all the students and staff in the institution will be covered for the sum assured rupees 1,00,000/- each. Features of Student Safety Insurance Policy/ Janata Personal Accident-Group Policy will be covered against loss of one or both limbs, one or both eyes, one limb and one eye, partial disablement, permanent disablement and also in the event of death. Policy remains in force for a period of 12 months.

Provide the weblink of the institution

<http://www.hsit.ac.in/NAAC/C7/7.3-2019-20.pdf>

8.Future Plans of Actions for Next Academic Year

Hirasugar Institute of Technology visions to be a preferred institution in Engineering Education by achieving excellence in teaching and research and to remain as a source of pride for its commitment to holistic development of

individual and society. Thus, Institute believes in creating new frontiers of knowledge with the following future plan of actions for the next academic year.

1. To strengthen the R and D eco system.
2. To ensure fair access to and affordability of academic programs for various sections of society.
3. To organize various Health Care Programs.
4. Applying for UNNAT BHARAT Scheme.
5. Applying for AICTE's MARGADARSHAN Scheme.
6. To ensure 100 utilization of lecture hours.
7. To further strengthen ICT facility.
8. To have more industry institute interaction.
9. To increase e-content by teacher.
10. Initiatives for an eco friendly learning space.
11. To organize society oriented programs.
12. To organize energy conservation awareness programs.
13. To ensure a plastic free, Junk food free Tobacco free campus make the campus eco-friendly.
14. Strengthening the Alumni database their contribution.
15. To organize pre placement trainings to enhance placement of students.
16. To prepare and publish technical magazines and news letter at department level.
17. Timely submission of AQAR.