



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	HALDIA INSTITUTE OF TECHNOLOGY
Name of the head of the Institution	Prof. A.K. Saha
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	03224252800
Mobile no.	9434453179
Registered Email	admin@hithaldia.in
Alternate Email	principal.hit@hithaldia.in
Address	Haldia Institute of Technology ICARE Complex HIT Campus PO HIT PURBA MEDINIPUR
City/Town	Haldia
State/UT	West Bengal
Pincode	721657

<b>2. Institutional Status</b>																									
Autonomous Status (Provide date of Conformant of Autonomous Status)	28-Sep-2019																								
Type of Institution	Co-education																								
Location	Semi-urban																								
Financial Status	Self financed																								
Name of the IQAC co-ordinator/Director	Dr. T.K. Jana																								
Phone no/Alternate Phone no.	03224253061																								
Mobile no.	9434102354																								
Registered Email	admin@hithaldia.in																								
Alternate Email	tarun.jana2000@gmail.com																								
<b>3. Website Address</b>																									
Web-link of the AQAR: (Previous Academic Year)	<a href="https://hithaldia.in/main/aqar-2/">https://hithaldia.in/main/aqar-2/</a>																								
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://www.hithaldia.in">http://www.hithaldia.in</a>																								
<b>5. Accrediation Details</b>																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>70.5</td> <td>2005</td> <td>20-May-2005</td> <td>19-May-2010</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.31</td> <td>2016</td> <td>16-Sep-2016</td> <td>15-Sep-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	70.5	2005	20-May-2005	19-May-2010	2	A	3.31	2016	16-Sep-2016	15-Sep-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	B	70.5	2005	20-May-2005	19-May-2010																				
2	A	3.31	2016	16-Sep-2016	15-Sep-2021																				
<b>6. Date of Establishment of IQAC</b>	11-Aug-2011																								
<b>7. Internal Quality Assurance System</b>																									
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																						

Seminar on Application on Nuclear Science in BioChemical Engineering Agricultural Productivity and Food Safety	30-Aug-2019 2	75
Workshop on Autonomous Robotics	08-Feb-2020 2	65
Two days virtual National Workshop training entitled Food Safety and COVID 19 Risk Management	15-May-2020 2	115
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**8. Provide the list of Special Status conferred 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
Haldia Institute of Technology/Mechanical Engineering/Dr. Supriyo Roy	Sponsored Research Project	CSIR-HRDG (Govt. of India)	2019 1095	1019000
Haldia Institute of Technology/SAS&H/Dr. Santanab Giri	INSPIRE	DST	2014 1825	477728
Haldia Institute of Technology/SAS&H/Dr. Santanab Giri	SERB-young scientist	DST-SERB	2016 1095	82843
Haldia Institute of Technology/SAS&H/Dr. Santanab Giri	Core research Grant	DST-SERB	2020 1095	2218340
Prof. (Dr.) Siraj Datta (Dept. of Biotechnology, HIT)	MODROB	AICTE	2019 180	1941000
Prof. (Dr.) Siraj Datta (Dept. of Biotechnology, HIT)	DBT-NER	DBT	2019 1095	3757120
Dr. Shreyashi Santra Mitra (PI) & Dr.	R&D Project	SERB, DST	2017 1095	3713600

Abhisek Santra (Co-PI)				
Dr. Abhisek Santra (PI) & Dr. Shreyashi Santra Mitra (Co-PI)	R&D Project	SERB, DST	2018 1095	2420580
Prof. (Dr.) Suvroma Gupta (Dept. of Biotechnology, HIT)	R&D Project	SERB, DST	2017 1180	700000
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
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Upload latest notification of formation of IQAC	<a href="#">View File</a>
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<b>10. Number of IQAC meetings held during the year :</b>	3
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The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
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Upload the minutes of meeting and action taken report	<a href="#">View File</a>
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<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
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<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>
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1. Coordinating the renewal process of accreditation by NBA for four UG programmes namely B. Tech in CSE, ChE, BT, and ME 2. Coordinating the first time accreditation by NBA of three UG programs namely B. Tech in IT, FT, CE. 3. Introducing long distance digital classroom using various platforms 4. Arranging a number of webinars 5. Reform of curriculum and syllabus of various UG programmes under autonomy.

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<b>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</b>
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Plan of Action	Achivements/Outcomes
Constitute the respective Board of Studies (BOS) for framing the	Different BOSs are constituted as per UGC norms and framing of curriculum and

curriculum and syllabus under autonomy	syllabus almost on the verge of completion
Visit by NBA for three (03) UG programmes namely B. Tech in IT, CE & FT.	Visit by Peer team held and all the three programmes are accredited.
Visit by NBA for renewal of four (04) UG programmes namely B. Tech in CSE, ChE, BT, and ME.	Visit by experts held and all the four (04) programmes are re-accredited for additional three (03) years.
Proposal to all department for organizing conference / seminars / workshops / FDPs at least once in a year.	A good number [07] of webinar were arranged.
Meetings with the HODs for faculty load distribution as per new syllabus.	Routine was framed before commencement of the semesters and followed accordingly.
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
Academic Council	17-Aug-2020

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
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Date of Visit	21-Feb-2020
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
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Year of Submission	2020
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Date of Submission	04-Jan-2020
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<b>17. Does the Institution have Management Information System ?</b>	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The following aspects are under MIS. Administration : Biometric attendance is being implemented. Finance and Accounts : Students fees collection and clearance at the end semester. Student Admission and Support : Registration ID creation, Form submission, Document uploading, Allotment hostels Examination : Enrollment, Class Test (CA) , Form Fill up, Theory and Practical Examination, Result
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## Part B

**CRITERION I – CURRICULAR ASPECTS****1.1 – Curriculum Design and Development**

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	BT	Biotechnology	27/11/2019
BTech	AEIE	Applied Electronics & Instrumentation Engineering	27/11/2019
BTech	CHE	Chemical Engineering	27/11/2019
BTech	CSE	Computer Science & Engineering	27/11/2019
BTech	EE	Electrical Engineering	27/11/2019
BTech	ECE	Electronics & Communication Engineering	27/11/2019
BTech	FT	Food Technology	27/11/2019
BTech	IT	Information Technology	27/11/2019
BTech	CE	Civil Engineering	27/11/2019
BTech	ME	Mechanical Engineering	27/11/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
<b>No Data Entered/Not Applicable !!!</b>				
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**1.2 – Academic Flexibility**

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	AEIE	27/11/2019

BTech	BT	27/11/2019
BTech	CE	27/11/2019
BTech	CHE	27/11/2019
BTech	CSE	27/11/2019
BTech	ECE	27/11/2019
BTech	EE	27/11/2019
BTech	FT	27/11/2019
BTech	IT	27/11/2019
BTech	ME	27/11/2019

### 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
Grooming Motivational Seminar By Soham Sen	18/06/2019	342
Grooming Session by Subhas Roy	24/08/2019	231
Site Visit	20/03/2020	20
Reinforce Positive behaviour at the work place to achieve Safety Health	03/07/2019	355
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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
BTech	ME / CE	15
MBA	MBA	5
BTech	CSE / IT	10
BTech	AEIE / CSE / ECE / ME / CE / FT	55
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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
Feedback is at the core of any control system to get the desired output and the

same is equally true for any academic process. An academic program exists to satisfy the varying interests of different stake holders and therefore it should try to fulfil their expectations as far as practicable. Students and teachers are the two primary components of any academic program. Under the OBE system, the students would attempt to attain their program outcomes proactively by undergoing various courses. The students are apprised about the POs and COs and it is the teacher who acts as the facilitator in the attainment of these outcomes. During the execution of a particular course, the students exercise their feedback and an exit survey is conducted to record their responses against specific attributes on the entire transformation process. These feedbacks are critically analyzed and necessary corrective actions are taken for the improvement of the processes. Feedback from the employer is perhaps the most important for a professional program like engineering and technology, since the majority of the students usually look for a respectable job. It is expected that the graduates will be able to perform according to the expectations of their employer. Two different categories of feedback are obtained from the employers: (i) Regarding curriculum syllabus, and (ii) Performance of the graduates. While the former helps to assess the adequacy of the curriculum and the syllabus to meet the industrial needs, the later deals with the performance of the students in terms of knowledge, skills, behaviour and attitude. Typical lists of questionnaire are designed and the responses are analyzed to mitigate the shortcomings. Alumni plays a very crucial role to the development of engineering education and therefore their view on different aspects of academic process is also very crucial. Well documented feedback from Alumni is obtained about the market and the industry and thrust is given accordingly. For instance, alumni provide valuable inputs about the importance of computer languages and software skills such as C, C++, Java, Python etc. The institute accordingly arranges for knowledge and skill up-gradation programmes for final year and pre-final year students to enhance the employability of the budding engineers. The feedback and opinion from the parents are obtained in parent-teacher meet organized by the individual department regularly.

## 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
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

### 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	1229	115	217	26	243

### 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
243	243	5	45	15	10
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

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

Students mentoring system was introduced long back in the institution. The primary focus of the system is to motivate the students in study and co-curricular activities by removing any psychological barrier. In each department, a healthy mentor and mentee ratio of 1:20 to 1:30 is maintained for improving the effectiveness of the process. The major objectives are as follows: (1) Let the students feel that the institution is a home away from home, (2) To mitigate the gaps between the teachers and the students. If a student seeks any help from any teacher, he/she should not feel hesitated rather should approach freely about the problem. (3) To give the students a general lesson of developing an attitude of engineering studies in a holistic manner and in multidisciplinary settings. (4) To explain the students the importance of human faculties in engineering education and motivate accordingly. (5) To encourage the students for participatory learning. In contrast to traditional passive learning, the students should adapt active learning by establishing effective two-way communications, (6) To aware the students with Job opportunities and how to prepare for making a breakthrough. (7) To motivate for higher studies and entrepreneurship. (8) To explain the students the importance of hostel life and how to maintain a healthy relationship with the peers (9) The importance of co-curricular and extra-curricular activities in shaping their career, (10) Finally, mentoring to remove any misconception, mental blockade, and advice and support for improvement in academic performance. (11) Due to Covid outbreak and disruption of normal life in an unprecedented manner, people are forced to confine and mobility was restricted, which pose severe mental agony among the people, particularly the students. Further, inadequacy of laptops, computers, smart phones etc. and poor network connectivity in some locations adversely affected the mental health for not being able to connect with the peers and the teachers seamlessly. It was the teachers who tried to address the psychological issues associated with the situation and provided the mental support in this regard.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4553	243	1:19

## 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
25	18	7	18	9

### 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	Nil	Nil	Nil

[View File](#)

## 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-	Date of declaration of results of semester-
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			end examination	end/ year- end examination
<b>No Data Entered/Not Applicable !!!</b>				
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nill	1159	0

## 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)

<a href="https://www.hithaldia.in">https://www.hithaldia.in</a>
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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
<b>No Data Entered/Not Applicable !!!</b>					
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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)

<a href="https://www.hithaldia.in">https://www.hithaldia.in</a>
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## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Nill
<a href="#">View File</a>

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Prof. (Dr) Radharani Das	Life fellow (Honor)	14/01/2020	Indian Chemical Society (ICS)

International	Manigrib Bag	Fellow of Indian Chemical Society	28/02/2020	Indian Chemical Society, India
National	Dr. Sucheta Das Maji	GOLD MEDAL BADGE from NPTEL online certification course	15/11/2019	NPTEL
National	Dr. Shamba Chatterjee	GOLD MEDAL BADGE from NPTEL online certification course	15/11/2019	NPTEL
National	Dr. Keya Sau	GOLD MEDAL BADGE from NPTEL online certification course	15/11/2019	NPTEL
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### 3.2 – Resource Mobilization for Research

3.2.1 – 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
No Data Entered/Not Applicable !!!				
<a href="#">View File</a>				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

10
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### 3.3 – Innovation Ecosystem

3.3.1 – 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
No Data Entered/Not Applicable !!!		
<a href="#">View File</a>		

3.3.2 – 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
No Data Entered/Not Applicable !!!				
No file uploaded.				

3.3.3 – 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
No Data Entered/Not Applicable !!!					
No file uploaded.					

### 3.4 – Research Publications and Awards

## 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Department of Applied Sciences and Humanities	4
Department of Mechanical Engineering	1
Department of Biotechnology	1
Department of Chemical Engineering	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

## 3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Applied Electronics Instrumentation Engineering	6
Biotechnology	3
Civil Engineering	2
Chemical Engineering	12
Computer Science Engineering	6
Electronics Communication Engineering	25
Food Technology	3
Instrumentation Control Engineering	5
Mechanical Engineering	3
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## 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
<b>No Data Entered/Not Applicable !!!</b>			
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## 3.4.5 – 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
Nil	Nil	Nil	2020	Nil	Nil	Nil
<a href="#">View File</a>						

## 3.4.6 – 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	Institutional affiliation as mentioned in
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					citation	the publication
Nil	Nil	Nil	2020	Nil	Nil	Nil
<a href="#">View File</a>						

### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Presented papers	42	38	9	Nil
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dept. of Civil Engineering	Testing of Paver Block, Concrete cubes, bricks	Indian Oil Corporation Ltd	53300
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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Mechanical Engineering / Electrical Engineering / Chemical Engineering	3 years Certificate Course	Tata Steel HMC Division	800000	32
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### 3.6 – Extension Activities

#### 3.6.1 – 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
No Data Entered/Not Applicable !!!			
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#### 3.6.2 – 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
International coastal cleanup Day on 15.09.2018	winning First prize on the basis of garbage collection at haldi river site	Indian Coast Guard- Haldia	136
<a href="#">View File</a>			

3.6.3 – 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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
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**No Data Entered/Not Applicable !!!**

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**3.7 – Collaborations**

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

Nature of activity	Participant	Source of financial support	Duration
Ph.D. guidance	1	Self financed	20
Joint Paper Publication	1	BRNS	20
Research Work	1	HIT and University of Naples Italy	45
Students Project	8	CIPET	10

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3.7.2 – 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
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**No Data Entered/Not Applicable !!!**

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
National Institute of Technology, Mizoram	12/02/2020	Joint academic and scientific activities, mobility of research and teaching personnel, exploring future possibilities for student mobility including internship/training, possible access to publications and other materials of common interest,	Nil

		etc.	
National Institute of Technology, Kurukshetra	12/12/2019	Joint academic and scientific activities, mobility of research and teaching personnel, exploring future possibilities for student mobility including internship/training, possible access to publications and other materials of common interest, etc.	Nil
University of Naples Federico II, Italy (State Govt. University)	27/09/2019	Academic Research Collaboration	3
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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
486.84	321.38

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Newly Added
Campus Area	Existing
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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
LYBSIS	Fully	LSEase	2003

#### 4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
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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
Dr.Soumen Paul	Algorithm, Java Programming	Microsoft Office	19/02/2020
Dr. Sabyasachi Samanta	Digital electronics, compiler design, multimedia, cryptography	Microsoft Office	19/02/2020
Mr.Bidyut Das	data structure, Internet technology	Microsoft Office	19/02/2020
Mr.Manasiya Bhattacharya	Computer networking, Operating system	Microsoft Office	19/02/2020
Mrs. Tamosa Chakraborty	Distributed database, MIPS architecture	Microsoft Office	19/02/2020
Mr. Tauseef Khan	C language, database management system	Microsoft Office	19/02/2020
<a href="#">View File</a>			

#### 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	1431	422	319	230	150	50	260	100	0
Added	0	0	0	0	0	0	0	0	0
Total	1431	422	319	230	150	50	260	100	0

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

100 MBPS/ GBPS
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##### 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
Institutional official website	<a href="https://hithaldia.in/main/information-">https://hithaldia.in/main/information-</a>



#### 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
180.45	172.55	893.54	784.64

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)

Being a self financed institution the major financial source is fee collected from the students. Generally the Head of the Departments submit their annual budget of their department for maintaining and utilizing physical and academic support facilities through Academic Council and Finance Committee. After proper scrutiny the final budget is sanctioned by the BOG as per the availability of the financial resources. Procurement of goods and services for maintaining above mentioned facilities are done according to the sanctioned budget and guidelines of the BOG.

<http://www.hithaldia.in>

#### 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	Half / Full Freeship	486	12019700
Financial Support from Other Sources			
a) National	Scholarship	688	20523500
b) International	NA	Nil	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
IBM Campus Ambassador Programme	25/02/2020	15	IBM
Aptitude Sessions	08/02/2020	122	Made Easy
Aptitude Sessions	09/02/2020	169	Made Easy
Aptitude Sessions	15/02/2020	167	Made Easy
Aptitude Sessions	16/02/2020	133	Made Easy
Nestle NESCONNECT	26/08/2020	139	NESTLE
Preparatory Online Aptitude	08/03/2020	353	First Naukri

Softskill Training Classes	27/01/2020	51	In House
No file uploaded.			

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
2020	Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>					

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
4	4	3

## 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
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

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
2020	Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>					

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	65
CAT	2
GRE	1
Any Other	1
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		

[View File](#)

### 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
2020	Nil	Nil	Nil	Nil	Nil	Nil

[View File](#)

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

The college has counseling and guidance cell. Counselor is available round the clock to the students. The counseling cell provides guidance to the students (B.Tech, M.Tech, and MCA MBA) thorough out their course. This cell provides counseling service in small or large group in their regular scheduled class. In addition the students who need psychological, social, personal and academic counseling are indentifiedand sessions are conducted with extreme care on an individual basis. Counseling helps students..... 1) Our students may face difficulties to handle the problems, and they may feel stuck.Counseling helps students to discuss and understand their problems and create different strategies. 2) As the students belong to adolescence period and they are living far from their parents, they may be confused in different aspects. Counseling can help students understand the different shades of their problems. 3) When difficult life events come up or when a lot of little thingsto go wrong for someone over time, it may become difficult to feel hopeful or have a positive outlook. Counseling can help studentsto understand the impact of the situation.Thus they can control their emotions develop more positive perception. 4) Counseling helps the students to learn more about self, theirability, how to cope up with the environment. It helps the students to realizetheirS.W.O.T (Strengths, weekness, opportunitythreats'). 5) The guidance helps students to set goals in academic and extracurricular arena to develop strategies for their future goals. 6) In the pandemic situation the counselor is available for 'Telecounseling' to take care of mental health of the students over telephone and video calling. Counseling cell is active to help the students to cope with the situation regarding change in learning methods and life skills (Anxiety,depression, insecurity, Covid-19 behavior norms, Social awareness etc.) We support students with- ? Individual Consultation ? Crisis Intervention ? Group Counseling ? Gate Keeper's Training ? After Hour Services ? Telecounseling Counseling cell accommodates confidential one-to-one and group based Counseling services.

### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

4500

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

300000

**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 and Participative Management is an approach to offer flexibility in decision-making process in wide spectrum of activities. Hierarchical and orthodox management hinders progress and often resulted in a deadlock situation. The success of an institution is the outcome of unified effort put together by all concern to materialize the vision of the institution into the reality. Decentralized and participative management aims at participation of the employees as an individual and as a team so that their endeavor and contribution helps in realizing growth, excellence, and competitive edge of the institution. The participative management is applicable in all three levels of management: Strategic level, Functional level, and Operational level. The Board of Governors (BOG) is at the top and envisaged as the highest decision-making authority. The members of the BOG of the Institute are responsible for the general superintendence, direction and control of the affairs of the Institute and exercise all such powers and discharge all such functions as may be necessary for the purpose. To implement and practice decentralized and participative management various academic and administrative committees are framed by BOG and their responsibilities are assigned. In line with the UGC, three other statutory committees are constituted. These are Academic Council, Board of Studies, and Finance Committee. The Academic Council is the main Academic Authority of the Institute. It manages the academic affairs of the Institute and functions under the direct control and supervision of the Board of Governors. The Board of Studies is an academic wing of the Institute and functions under the direct control and supervision of the Academic Council of the Institute. The Finance Committee, as constituted by the BOG of the Institute, examines the accounts and scrutinizes proposals for expenditure, prepares budgets, allocate funds etc. Additionally, the following Non-Statutory Committees have been formed with the approval of the Board of Governors for day to day institutional development, nurturing the academic ambience, improving the overall Teaching-Learning process, foster research work and to maintain discipline in the Institute. These are ? Planning and Evaluation Committee ? Examination Committee ? Internal Quality Assurance Cell (IQAC) ? Grievance Redressal Committee (other than sexual harassment) ? Anti-Ragging Committee ? Students Admission Committee ? Library Committee ? Student Welfare Committee ? Academic Audit Committee ? Sexual Harassment Redressal Committee ? Purchase Committee ? Training Placement Committee ? RD Monitoring Committee ? Industry Institute Partnership Cell ? Disciplinary Committee

Director/Principal is the overall Head of the Institute and is assisted by the Registrar, various Officers, Deans and the Heads of the Departments. Two Best Practices: 1. Academic activities: All academic related activities are carried out according to the decision of academic council. The members of the council contribute significantly for planning and implementation of academic process with a focus on OBE and continuous improvement. 2. Board of Studies: Different Board of Studies are constituted with members according to the UGC guidelines for curriculum and syllabus revision.

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

Partial

**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
<p style="text-align: center;">Admission of Students</p>	<p>The institute follows the admission guidelines as set by the Government of West Bengal. The first year students admission is based on the rank of WBJEE and JEE (Main). The institute follows the reservation system (such as SC, ST, OBC etc.) as set by the Government. 15 seats of approved intake in B.Tech are available for Foreign Students and 10 students from JK and Ladakh can be admitted under Prime Minister Special Scholarship Scheme. Additionally, 10 lateral entry seats are made available for admission in the 2nd year.</p>
<p style="text-align: center;">Industry Interaction / Collaboration</p>	<p>Interaction with industries is one of the key activities of any engineering institution for mutual benefits. The institution has a dedicated Training and Placement Cell that continuously interacts with different industries which includes core sectors, CS IT sectors, Food processing and other allied areas. Some of the major objectives of such interaction and collaboration are (i) To explore the placement opportunities for the students and arrange for the same, (ii) To arrange training of the students, (iii) Expert lectures by the industry personnel so that students can be acquainted with the modus operandi of the industries and can prepare accordingly, (iv) To look into the possibility of training the industry personnel by our faculties.</p>
<p style="text-align: center;">Human Resource Management</p>	<p>Human Resource Management is the strategic approach of the management of people in any organization such that they contribute significantly to realize the objective of the organization and to derive competitive advantages. In any academic institute utmost importance is given to the selection of the faculty and technical staffs so that they can contribute significantly for the quality education to realize and the same is equally true in the institute. A highly conducive and congenial work environment is created so that everyone feels at home while discharging his/her duties. The institute also ensures the growth prospects of the people in an attempt to motivate them for valued</p>

<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>contribution.</p> <p>The institute has sufficient numbers of class rooms, and laboratories for conduct of different programmes. Additionally, there is a central auditorium for conducting seminars, and conferences. In each department there are smart class room(s) for ICT based teaching. Laboratories are equipped with modern facilities and these are upgraded from time to time to suit the requirements. The class rooms are spacious and well illuminated. Additionally, a large play ground, basket ball ground, and Gymnasium and Yoga center are also present in the campus for healthy living and pursuing sports and related events. The institute has a spacious library having more than 128000 titles and other learning resources like journal, E-journal, E-books, CD Videos. Library is fully automated with LibSys Software [Version LSEase] since 2003.</p>
<p>Research and Development</p>	<p>The institute believes in the continuous innovations and research necessary for the quality education. A good number of faculty members are pursuing doctoral work and some of them have received the degree. Few sponsored research projects have been sanctioned and on-going funded research are at different stages of execution. Faculty members have published several research papers in the international journals and conferences of repute. Few faculty members have also written books and book chapters published by reputed publisher(s). The institute has organized several international/national conferences and seminars (including webinars), Faculty development programmes (FDPs), workshop etc. for promoting research activities in the institute.</p>
<p>Examination and Evaluation</p>	<p>First of all evaluation of subject papers has categorized as theory papers, practical papers sessional papers. In theory papers two types of evaluation has been adopted as i) Theory internal assessment out of 30 marks and it is based on class attendance (5 marks), class test (15 marks) assignments (10 marks). From several class test (at least 3) assignments submission, respected faculty members evaluate a student for</p>

theory internal assessment, and ii) Theory external assessment out of 70 marks is naturally assessed by written examination process at the end of the academic session. In practical papers also two types of evaluation has been adopted as i) Practical internal assessment out of 40 marks and it is based on class attendance (5 marks), learning interaction in the class (10 marks), practical report book (15 marks) and internal viva-voce (10 marks), and ii) Practical external assessment out of 60 marks and assessed on practical examination performance (40 marks) grand viva-voce (20 marks). In sessional papers (100 marks), two types of evaluation process has been adopted as i) Items which are conducted outside the Institution viz., Industrial training, Curricular/Extra-curricular participation etc. - assessment may be made on the basis of Supervisor's assessment, report submitted by the student, if any, participation attendance, and Viva-Voce conducted by a Departmental Committee, constituted by the Departmental Head and duly ratified by the Principal and ii) Items conducted in the Department / Institution viz., Seminar, Comprehensive Viva-Voce - are evaluated by the Departmental Academic Committee(s) constituted by the Head of the Department(s) and ratified by the Principal, based on participation and attendance in this course, comprehension of seminars by fellow students, presentation and content of seminar presented, capability to address to questions by participants. After collecting all the data from the respective faculty members and evaluation of papers (theory external assessment practical external assessment), the results will publish normally within 30 days from date of completion of end semester examination.

Teaching and Learning

In tune with the growing need of innovations in teaching learning process, the faculty members contribute significantly and explore the different mechanism to make the process highly effective and attractive. In view of Covid pandemic, faculty members are using the digital platform to reach out to the students and continue with the teaching. This makes the process highly



	<p>effective and flexible. The concept of flipped classroom is being introduced to augur well for the students. Additionally, all round effort is paid to accrue the potential benefits of Outcome based Education (OBE) consistently to enhance the employability of the students.</p>
Curriculum Development	<p>To keep pace with the rapid technological developments which are taking place all over the globe, it is imperative that curriculum and syllabuses of different programmes should be revised and contemporary and emerging topics would be incorporated to satisfy the need of the different stakeholders. Revision of the curriculum and the syllabus is extremely important for the improvement of quality of education of any institute. During this academic year, the institute by virtue of its autonomy and following the norms of the UGC, have constituted various Board of Studies (BOS) for different programmes and the members have done the needful in this regard.</p>

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

E-governance area	Details
Administration	Biometric attendance has been implemented.
Finance and Accounts	Semester Fees Collection, issuance of E-Challan, issuance of clearance to the final year students.
Student Admission and Support	Registration ID creation Form Submission Document uploading Allotment of hostels
Examination	Enrollment Class Test (CA) Form Fill up Theory Exam Practical Exam Result Publication Mark Sheet Preparation

**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
2020	Nill	Nill	Nill	Nill

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges 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)
2019	Applications of Nuclear Science in Bio-Chemical Engineering, Agricultural Productivity and Food Safety-ANS 2019	Nil	30/08/2019	31/08/2019	15	Nil
2019	Process Safety Management and Its Application in Industries	Nil	18/11/2019	18/11/2019	15	Nil
2019	Managing Self in the VUCA World	Nil	22/09/2019	29/09/2019	51	Nil
No file uploaded.						

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
No Data Entered/Not Applicable !!!				
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
243	243	219	219

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1	3	40

#### 6.4 – Financial Management and Resource Mobilization

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

Yes, Internal Audit for conduct internal audit of the accounts of the institute regularly and submit bimonthly report to the management for proper control and decision making. Statutory Audit also conduct for the statutory audit of the annual accounts of the institute after completion of each financial year as per the I.T. Act.

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
NIL	0	Nil
No file uploaded.		

6.4.3 – Total corpus fund generated

0
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## 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	Transworld Consultant	Yes	IQAC
Administrative	Yes	K R Sriram Co	Yes	IQAC

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

Feedback was obtained on Mission, Vision and PEOs of the department. Inputs from the guardian to impart regular industry visit to develop the skill set of the students and to mitigate the gap in the course curriculum.

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

Food Safety Supervisor (Food Safety Training and Certification - FoSTaC)-FSSAI (Advanced Manufacturing) organized by Department of Food Technology, Haldia Institute of Technology on 22/08/2019, Participant 3 Short term training program on Advanced Graphics through AutoCAD attended by 6 participants. During 6th - 10th January 2020. SDP on "Maintenance of Laboratory Instruments" During 13 - 20 January, 2020, attended by 6 participants

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

NBA accreditation for 11 UG programmes. Autonomy Status for 10 years [from 2019-20 to 2028-29] Expression of Interest by industries specially for placement.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
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
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2020	Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>					

## 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
Women's Day Celebration	08/03/2020	08/03/2020	90	6
Women Empowering Women, (online mode by NSS and Matangini Hal of Residence, HIT)	13/05/2020	13/05/2020	85	5
Gender Studies and its Impacts (Google meet, Organised by NSS, HIT)	25/06/2020	25/06/2020	45	40

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
Percentage of lighting power requirements met through LED bulbs is 6.75

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	1200
Ramp/Rails	Yes	15
Rest Rooms	Yes	25

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
2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
A Hand Book on Values on Ethics For	23/07/2019	Includes the code and conduct for students,

Stakeholders of Haldia Institute of Technology		teachers and staff, which published in college website, notice board and circulated from time to time in the beginning of each academic year.
Service Rule	15/07/2019	Includes the code and conduct for employees' along with other rules and regulations, modified from time to time as due permission of Governing Body
Information Brochure for Hostels	15/07/2019	On the basis of Universal Human Values the code and conduct for the students in Hostel, in mess and in campus, this changes from time to time along with the beginning of the Academic year.
Academic Rules [Prospectus]	01/07/2019	College Code and conduct like dress code (uniform), Code and conduct in library follow up yearly in the beginning of each academic year.
Student Induction Program, Anti ragging Duty(Three Month)	15/07/2019	From time to time as Academic Schedule.
Director,Principal,Dean (SWC) Hostel Visit for up gradation of UHV	30/07/2019	Follow up from time to time during first three months for first year Hostels as per guidance of competent authority

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Large concrete tank for the harvesting rain water is present in the Campus System is used throughout the year.
- Plantation: plantation program is carried out throughout the year. Now each building and playgrounds are surrounded by large green gardens and plants to maintain the healthy environment, ecosystem and it promotes carbon credit also.
- Activities pertaining to cleanliness in Campus, Coastal area cleaning, tree plantation, blood donation, Thalassemia detection camp, eye testing, etc.
- The Institute has been awarded ISO certifications for Quality Management and Environment Mangement.
- Energy Conservation: The institute has been very conscious about the energy conservation. The College has gradually moved on from normal light bulbs (list

required watt) to tube lights, CFLs, LEDs and the Institute also replaced most of the CFT monitors to LCD monitors. • The College also promotes procurement and installation of efficient electrical system to save electricity. Besides, setting up an Energy Audit Committee, retrofitting job of existing 40 watt and 20 watt F.L. fittings with use of 30 and 17 watt electronics ballast against replacement of old defective fittings /electrical chokes as energy saving measures are undertaken.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Practice -1 Flipped Classroom based teaching-learning In a class lecture of chalk and talk mode, the attention of most students starts to diminish after ten or fifteen minutes, so flipping the class can facilitate keep students focused and learning for the whole period. Flipping the classroom means that students have time to develop and reflect on concepts and increase their knowledge base before coming to class to apply their learning. Faculties can get a sense of where students are having difficulty with the course material or have questions or misconceptions about concepts (possibly through an online assessment or discussion forum) before they come to class. Faculties then adjust what will be done in the class depending on this feedback. In a flipped classroom students are engaged with lectures or other materials outside of class to prepare for an active learning experience in the classroom. Students engaging with materials online followed by in-class activities using platforms such as Google Meet, Zoom, Google Class room etc. that involves peer learning or small-group work. There are many activities that can be part of a flipped class such as discussions, debates, clicker questions, Q and A, demonstrations, simulations, etc. Students can control the time, pace and place of learning with the online materials. Many students find it useful to repeat segments of an online presentation when they are having difficulty with a particular concept or when they are studying for the final exam. One attractive feature of this method is: "Think-aloud pair problem solving" the detailed modalities of which are as follows: • Students are provided with a set of complex problems that require multiple steps to solve, • Students are paired up in small groups and are asked to solve the problem. One of them explains their thought process in developing a solution based on what has been learned out of class, • His partners listens to this process and offers suggestions, or expresses confusion regarding the parts that are difficult to understand, • After the first problem has been discussed, the students asked to switch roles and begin again.

Practice -2 Coverage beyond syllabus With the rise in various technological development that are taking place to combat the growing industrial challenges, it is necessary that budding engineers should be exposed and acquainted with these changes so as to perform in tune with the expectations of the industries and to have a strong foundation for pursuing higher studies. To educate the students following a stipulated curricula and syllabus is not adequate in this regard. Frequent modification and rationalization of syllabus is also not a feasible solution considering different constraints. However, this problem can be appropriately addressed by the course teachers. It is the flexibility of the course teacher to formulate a detailed lecture plan meticulously so that advanced and emerging topics are also taught in synchronization with the fundamental topics so as to enrich the course to the maximum possible extent. Faculty members continuously update their lecture plan and implement the same for mutual benefits.

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

### 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

Outcome-based education is extremely important for the overall interface between the students and the faculty of an institute. Outcomes-based education as defined by Spady means "clearly focusing and organizing everything in an educational system around what is essential for all students to be able to do successfully at the end of their learning experience." This necessitates clearly identifying distinct sets of actions and procedures which an institution would follow to ensure the proper institution-wide implementation of OBE. This includes restructuring of curriculum, emphasis on learner centric teaching learning, goal oriented assessment, and continuous improvement in education. The key characteristics of OBE focus on student's demonstration of learning outcomes rather than accumulation of course credits. In this regard, the institute's endeavor needs to align all aspects of educational processes and systems to the expected outcomes so that all students should be able to proficiently exhibit at the end of the curriculum. However, it is misnomer to consider that healthy grade points are the yardstick of outcomes rather true manifestations of expected competencies would be regarded as the result of significant learning experiences. In tune with these objectives vis-à-vis actions, the institute had already implemented and continued the same in different phases for different UG programmes. Four programmes namely B.Tech in CSE, ChE, ME and BT which were previously accredited by NBA, were renewed during the period 2019-20. Additionally, three other UG programmes: B. Tech in IT, FT, CE were also accredited by NBA during this period. The quality accreditation by NBA has been given utmost priority and it also comply with the vision of the institution.

Provide the weblink of the institution

[www.hithaldia.in](http://www.hithaldia.in)

### 8.Future Plans of Actions for Next Academic Year

- Renewal of accreditation by NBA for three UG programmes e.g. AEIE, EE, and ECE.
- To introduce new UG (Engineering) programs in emerging areas such as Data Science, AI, Machine learning etc.
- To enhance intake of B. Tech in IT
- To complete the new workshop
- To have more collaboration with the industries and institutes for students training and higher studies respectively.
- To organize more webinars
- To achieve higher placement for students by exploring new ventures.