



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY AND MANAGEMENT
Name of the head of the Institution		Dr. P. K. Sinha
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		03432520930
Mobile no.		9434538755
Registered Email		principal.diatm@rahul.ac.in
Alternate Email		pksinha1959@gmail.com
Address		NH2, Rajbandh, Durgapur
City/Town		Durgapur
State/UT		West Bengal
Pincode		713212

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Semi-urban			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr. Shouri Banerjee			
Phone no/Alternate Phone no.		03432520930			
Mobile no.		9434333272			
Registered Email		ash.hod@rahul.ac.in			
Alternate Email		shouri.ash@rahul.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://diatm.rahul.ac.in/igac/AOAR_2018-19.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://diatm.rahul.ac.in/web/academic-calendar/			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.07	2019	01-May-2019	30-Apr-2024
6. Date of Establishment of IQAC			17-Oct-2017		
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	
Regular meeting of IQAC		04-Sep-2019		12	

	1	
Professional Development Programme	11-Nov-2019 5	30
Feedback Analysis	05-Mar-2020 2	10

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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
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

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 :

2

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)

IQAC regularly monitors the ongoing academic activities and time to time suggest and incorporate developmental strategies.

Promotes industry academia relationships which facilitate a good number of students for their better exposer.

Organise periodically short seminar and hands-on workshops.

Motivates faculty members to participate on FDP, research activity and training programme.

Monitors the examination system and incorporate corrective measures to enhance the quality of the modus operandi.

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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
Regular review meeting with HODs for academic activities and class report	Gradual improvements are observed regarding the class discipline and academic quality.
Regular monitoring of class attendance	The attendance was improved which reflects in the final result of the students.
Implementation of Monthly Assessment Test (MAT)	MAT in regular interval improves the skill and understanding of the students in the micro level. In addition, this helps the students to built-up their confidence.
Analysis of results	The results are analyses by the academic committee, students are grouped category-wise and special attention will be given to the weaker group. This helps to uplift the grade of the slow learners.
Emphasis on Laboratory Classes	Students are also assigned additional lab classes apart from the regular with some extra task and related but out of syllabus problems to solve. This helps to enhance their intellect and also helps to build up their confidence level and deductive power to handle sudden and unfamiliar technical issues.

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Managing Committee	06-Mar-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission	2020
Date of Submission	31-Dec-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	We only have a partial management information system which mainly deals with the daily attendance, leave management and housekeeping. We have a plan to incorporate the student data and academic records within the system. At present all the faculty and staff members are using the facilities for their daily attendance, schedule of leave which they can see the approval within the stipulated time from higher authority. They can also check their leave balance through this system. In addition, planning to incorporate the Store and material issue within the same system has already been discussed.

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

As we are approved by AICTE and affiliated to MAKAUT, we follow the basic guidelines of university. Besides that, we also maintain an academic calendar of our own with a proposed schedule of inhouse academic and administrative activities. A regular meeting related to the class conduction and academic enhancement has been performed with head of the departments every week. Planning has been done to monitor the classes in regular manner to enhance the attendance and has been successfully implemented. This remarkably improved the attentiveness of the students in our Institution. Planning also has been done to restrict the change of the class routine in between a semester and to follow the published time table as strictly as possible. This helped a lot to maintain the discipline of the total student and teacher fraternity. The remedial classes are additionally incorporated at the middle of the semester for the slow learners. We have arranged some special classes also for the doubt clearing and revision. Teachers prepares and submit the lecture plans at the beginning of every semester. Class lectures are followed accordingly which helps the students also to track the development. Regular feedback of the students has been taken and analysed to find their difficulties and addressed accordingly. Mentorship system is incorporated at the beginning of every semester and run throughout the year. Students are very happy and highly benefited through the mentorship process.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene	Skill Development
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urship

No Data Entered/Not Applicable !!!

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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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
No Data Entered/Not Applicable !!!		

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

	Certificate	Diploma Course
No Data Entered/Not Applicable !!!		

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
English Communication	09/09/2019	45
Career Counselling	07/02/2020	75
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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	CSE	70
BTech	EE	32
BTech	ME	55
BTech	CHE	14
BTech	ECE	37
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
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

Student satisfaction feedback serves as a critical cornerstone in the continuous growth and refinement of educational institutions, contributing to their holistic development. This feedback is garnered through a meticulous process, encompassing a spectrum of parameters that are pivotal to the student experience. These parameters, which include the completion of the syllabus, the depth of course content, classroom communication, clarity in the evaluation process, learning value encompassing knowledge, skills, and concepts, industry relevance of the course, and the overall quality of education, provide a comprehensive framework for assessment. Once the feedback is obtained, it undergoes a systematic analysis that serves as the bedrock for informed decision-making. The analysis encompasses both qualitative and quantitative approaches, wherein qualitative comments are scrutinized for nuanced insights, and quantitative data is processed to identify trends and patterns. The feedback is then meticulously dissected across each parameter, allowing institutions to identify areas of strength and excellence as well as areas that necessitate refinement. Utilizing this feedback as a catalyst for institutional development is a multi-pronged endeavour. Positive feedback acts as an affirmation of effective strategies, encouraging faculty members to continue their commendable practices. Conversely, constructive feedback in areas such as completion of the syllabus or classroom communication prompts targeted action. For instance, if feedback underscores a gap in the completion of the syllabus, institutions may reevaluate pacing and allocate additional resources to ensure comprehensive coverage. Similarly, if the depth of course content or the clarity of the evaluation process is flagged, faculty development initiatives can be designed to enhance pedagogical techniques and assessment methodologies. Moreover, the feedback extends its reach beyond the immediate classroom environment. Insights regarding learning value, industry relevance, and the overall quality of education guide curricular reforms. If feedback highlights a misalignment between learning outcomes and industry demands, institutions can collaborate with industry partners to bridge the gap, ensuring graduates possess the necessary skills and knowledge for career success. Furthermore, the feedback loop encourages interdisciplinary collaboration, enabling departments to leverage each others strengths to enrich the learning experience. Institutional development driven by student feedback is a cyclical process that thrives on continuous improvement. To ensure that the feedback translates into tangible action, institutions often establish dedicated committees or task forces. These groups, comprising representatives from various academic and administrative domains, work collaboratively to formulate and implement strategic initiatives. Regular follow-ups on the progress made in response to feedback ensure that the loop is closed, thus nurturing a culture of responsiveness and adaptability. In conclusion, the process of obtaining, analysing, and utilizing student satisfaction feedback is a cornerstone in the evolution of educational institutions. With parameters ranging from curriculum completion to the overall quality of education, this feedback holistically informs decision-making and fuels targeted improvements. By embracing student voices, institutions not only enhance the educational experience but also foster a culture of continuous development, ensuring their relevance and excellence in an ever-evolving landscape.

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
BTech	CSE, IT, ECE, CHE, ME, EE	540	490	473

Mtech	VLSI	9	7	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	473	5	79	2	2

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
79	6	5	3	0	2

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

The mentor-mentee practice is a fundamental aspect of our institution, representing a dynamic relationship that fosters personal, academic, and professional growth. This practice embodies the ideals of knowledge sharing, guidance, and support, creating a nurturing environment where mentees can thrive under the guidance of experienced mentors. In this essay, we delve into the significance and transformative power of the mentor-mentee practice within our institution.

Fostering Personal Development: The mentor-mentee practice plays a pivotal role in nurturing personal development among students. Mentors serve as role models, offering insights into life experiences and valuable life lessons that extend beyond the classroom. Through open and honest conversations, mentees gain perspectives on setting and achieving personal goals, managing challenges, and making informed decisions. As a result, the mentor-mentee relationship becomes a safe space for mentees to explore their aspirations and fears, leading to increased self-awareness and self-confidence.

Academic Excellence through Guidance: Academic excellence is a cornerstone of our institution, and the mentor-mentee practice significantly contributes to this pursuit. Mentors, often faculty members or seasoned students, provide tailored academic guidance that caters to the individual needs of their mentees. They offer insights into effective study techniques, time management skills, and resources that can enhance the learning experience. This personalised approach not only improves academic performance but also cultivates a passion for learning that extends beyond grades.

Professional Growth and Networking: In today's competitive world, professional growth and networking are essential for future success. The mentor-mentee practice facilitates opportunities for mentees to learn from professionals in their chosen fields. Mentors can share industry insights, offer career advice, and provide a realistic perspective on various career paths. Furthermore, mentors often become the bridge between mentees and valuable professional connections, creating a network that can open doors to internships, job opportunities, and collaborations.

Building a Supportive Community: The mentor-mentee practice contributes to the creation of a tightly-knit and supportive community within our institution. This practice fosters a sense of belonging and encourages collaboration rather than competition. As mentors and mentees work together towards common goals, a culture of mutual respect and cooperation flourishes. This supportive atmosphere extends beyond the mentor-mentee relationship, positively impacting the entire institution by promoting inclusivity and empathy.

Development of Leadership and Communication Skills: For mentors, the practice offers an avenue to develop leadership and communication skills. Guiding and advising mentees require effective communication, active listening, and empathy. As mentors refine these skills, they enhance their ability to lead, inspire, and motivate others – qualities that are invaluable in any professional setting. This practice, therefore, not only benefits the mentees but also empowers mentors to become influential leaders. The mentor-mentee practice within our institution is not merely a tradition it is a transformative experience that shapes the

personal, academic, and professional trajectories of all involved. Through fostering personal growth, nurturing academic excellence, facilitating professional development, building a supportive community, and honing leadership skills, this practice enriches the educational journey for both mentors and mentees. As our institution continues to uphold and strengthen the mentor-mentee practice,

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1184	79	1:15

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
130	79	51	10	19

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
No Data Entered/Not Applicable !!!			
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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
BTech	ALL	ODD/2019	17/01/2020	17/03/2020
BTech	ALL	EVEN/2020/8TH SEM	18/07/2020	20/07/2020
BTech	ALL	EVEN/2020/REST	17/10/2020	20/10/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institution has embraced a Centralised Continuous Internal Evaluation (CIE) System, known as the Monthly Assessment Test (MAT), as an integral part of the teaching-learning process. This approach ensures a comprehensive evaluation of students development throughout the academic year. To acquaint students with this system, various measures have been taken: • Orientation Programmes: At the start of each semester, orientation programmes are conducted via the colleges public address system. These sessions enlighten students about the evaluation process, while any changes are communicated through Tutorial Meetings and electronic channels. • Notice Board Communication: The college and department notice boards also prominently display the guidelines, keeping students informed about evaluation procedures and updates. • Result Analysis: After each Monthly Assessment Test, the Examination Cell performs a detailed Result Analysis, calculating pass percentages for each course. The Principal oversees students performance and offers constructive feedback to faculty. • Review

Meetings: Department-specific Review Meetings, hosted by the Principal, facilitate performance enhancement discussions based on the Result Analysis, encouraging constant improvement in teaching methods and evaluation strategies.

- Parental Involvement: The institution values parental involvement in student progress. Departments send Progress Reports to parents after every test, enabling them to monitor and address their wards academic performance. If necessary, teachers may suggest parents visit the college for personalised discussions.
- Remedial Classes: Recognising diverse learning needs, Remedial Classes cater to slow learners, absentees, and active participants in extracurricular activities like sports, NSS, and placement interviews. This approach bridges learning gaps and empowers struggling students.

In conclusion, the institutions adoption of the CIE system, especially the MAT, underscores its commitment to comprehensive evaluation. Dissemination of information, meticulous result analysis, parental engagement, and tailored remedial efforts collectively foster a nurturing learning environment, promoting each students holistic growth.

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

An academic calendar serves as the backbone of an educational institution, providing a structured framework for the smooth conduct of examinations and other essential activities. This calendar acts as a guiding light, ensuring the timely execution of academic processes, maintaining transparency, and fostering an environment of effective communication. This essay delves into the significance of an adhered academic calendar in the context of examination management and related matters. An academic calendar is a meticulously designed schedule that outlines crucial academic events, including examination dates, assignment submission deadlines, registration periods, and holidays. It serves as a roadmap, offering students and faculty a clear overview of the entire academic year. A well-prepared academic calendar facilitates long-term planning, allowing students to manage their studies and commitments effectively.

Smooth Conduct of Examinations: Central to the academic calendar is the smooth conduct of examinations. By setting fixed examination dates, students are better equipped to prepare for assessments, reducing last-minute cramming and stress. Faculty members also benefit from the structured timeline, enabling them to design courses, assessments, and study materials in alignment with the calendar. Moreover, adherence to the calendar minimises the likelihood of clashes between different courses examination schedules, providing students with a fair and balanced assessment process.

Transparency and Communication: An academic calendar fosters transparency and effective communication between the institution, students, and faculty. By providing important dates well in advance, the institution demonstrates its commitment to fair and organised proceedings. Students can plan their academic commitments, personal activities, and study schedules accordingly. Faculty members can allocate time for teaching, grading, and research without unnecessary overlaps.

Resource Allocation and Planning: Adhering to an academic calendar aids in optimal resource allocation and planning. The institution can allocate invigilators, examination halls, and other logistical requirements well in advance. This prevents last-minute rush and ensures that the examinations are conducted seamlessly. Additionally, students can plan their exam preparation strategies, utilising available resources more effectively.

The preparation and adherence to an academic calendar for the conduct of examinations and related matters are integral to the effective functioning of an educational institution. It streamlines the examination process, enhances transparency, and fosters efficient communication among all stakeholders. A well-structured academic calendar contributes to a conducive learning environment, allowing students to perform to the best of their abilities while maintaining a balanced academic and personal life. Ultimately, the adherence to the academic calendar is a

testament to the institutions commitment to providing quality education and holistic student development.

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)

<https://diatm.rahul.ac.in/web/igac/>

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
NA	BTech	CSE	80	80	100
NA	BTech	IT	38	38	100
NA	BTech	ECE	37	37	100
NA	BTech	CHE	16	16	100
NA	BTech	ME	80	80	100
NA	BTech	EE	32	32	100
NA	Mtech	VLSI	2	2	100
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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)

<https://diatm.rahul.ac.in/web/igac/>

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
No Data Entered/Not Applicable !!!				
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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
Modern Cryptography: Recent Trends and its Applications	Applied Sciences and Humanities	14/09/2019
The World of Atoms and Molecule	Applied Sciences and Humanities	30/08/2019
Advances in Mobile Communication and Challenges in Mobile Computing	Computer Sciences and Engineering	04/03/2020

Production Engineering for Life - Breakthrough Technologies and Capacity Development	Electrical Engineering	16/11/2019
Covid-19 and its Impact on Software Industry	Applied Sciences and Humanities	11/07/2020
Life During COVID Confinement	Applied Sciences and Humanities	24/07/2020
Challenges in Cyber Security and Network Security Threats	Computer Sciences and Engineering	31/08/2019
Advances in Mobile Communication Challenges in Mobile Computing	Electronics and Communication Engineering	04/03/2019
Communication Engineering: "Future Scope and Challenges	Electronics and Communication Engineering	07/05/2019
Short Term Course on Microstrip Patch Antenna VLSI Design	Electronics and Communication Engineering	09/02/2020
Electrical Appliances Electrical Motor Winding	Mechanical Engineering	21/09/2019
Electrical Motor Winding Workshop	Mechanical Engineering	07/01/2020
Computational Application for Chemical Engineers	Chemical Engineering	21/09/2019

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
AI controlled object recognition using open CV	Pratyay Mitra	GDMT	03/09/2019	Student
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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
No Data Entered/Not Applicable !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

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

Name of the Department	Number of PhD's Awarded
No Data Entered/Not Applicable !!!	

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)
National	Mechanical Engineering	3	2.68
International	Applied Sciences and Humanities	7	2.00
International	Computer Science Engineering	3	2.82
International	Mechanical Engineering	3	0.68
International	Electronics and Communication Engineering	3	1.05
International	Chemical Engineering	1	1.12
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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
Electronics and Communication Engineering	2
Electrical Engineering	4
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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
Measurement of PT-weighted Sivers asymmetries in lepto production of hadrons	Dr. Sabyasachi Sarkar	Nuclear Physics B	2019	12	Calcutta-COMPASS Group (Matrivani Institute of Experimental Research Education), Calcutta-700 030, India	23
Lie group analysis of a Powell-Eyring nanofluid flow over a	Dr. Hiranmoy Mondal	SN Applied Sciences	2019	0	Department of Mathematics, Durgapur Institute of Advanced	6

stretching surface with variable properties					Technology and Management, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, 713212, India	
Spectral Quasi-Linearization Method for Non-Darcy Porous Medium with Convective Boundary Condition	Dr. Hiranmoy Mondal	Entropy	2019	0	Department of Mathematics, Durgapur Institute of Advanced Technology and Management, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, 713212, India	14
A multivariate spectral quasilinearization method for entropy generation in a square cavity filled with porous medium saturated by nanofluid	Dr. Hiranmoy Mondal	Case Studies in Thermal Engineering	2019	13	Department of Mathematics, Durgapur Institute of Advanced Technology and Management, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, 713212, India	14

					India	
Design of routing protocol for multi-sink based wireless sensor networks	Dr. Sankar Mukherjee	Wireless Network, Springer	2019	0	Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand, 826004, India	0
An efficient and batch verifiable conditional privacy-preserving authentication scheme for vanets using lattice	Dr. Sankar Mukherjee	Computing	2019	0	Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand, 826004, India	19
Flow Visualization for secondary flow and velocity separation due to curvature effect inside a Curved Double S Duct	Dr. P. K. Sinha	Int. Journal of Engineering Research and Applications	2019	0	Durgapur Institute of Advanced Technology Management, Durgapur	0
Flow Visualization for secondary flow and velocity separation due to curvature effect inside a Curved Double S	Subrata Kumar Majumdar	Journal of Engineering Research and Application.	2019	0	National Institute of Technology, Durgapur, West Bengal, India	0

Duct						
Cooling Environment Effect on the Microstructure and Mechanical Properties of Friction Stir-Welded Joints	Rajesh Prasad	Journal of Materials Engineering and Performance	2019	0	Indian Institute of Technology Delhi, New Delhi, India	0
Isolator-based mutual coupling reduction of H-shaped patches in MIMO antenna applications	Dr. Aparna Kundu	Advances in Computer, Communication and Control	2019	0	Durgapur Institute of Advanced Technology Management, Durgapur	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
Measurement of PT-symmetry breaking in leptoproduction of hadrons	Dr. Sabyasachi Sarkar	Nuclear Physics B	2019	35	23	Calcutta-COMPASS Group (Matrivani Institute of Experimental Research Education), Calcutta-700 030, India
Measurement of the cross-section for hard exclusive ρ^0 leptoproduction	Dr. Sabyasachi Sarkar	Physics Letters B	2020	35	27	Calcutta-COMPASS Group (Matrivani Institute of Experimental Research Education), Calcutta-700 030, India

Contribution of exclusive diffractive processes to the measured azimuthal asymmetries in SIDIS	Dr. Sabyasachi Sarkar	Nuclear Physics B	2020	35	4	Calcutta-COMPASS Group (Matrivani Institute of Experimental Research Education), Calcutta-700 030, India
Antiproton overproton and K^0 over K^+ multiplicity ratios at high z in DIS	Dr. Sabyasachi Sarkar	Physics Letters B	2020	35	7	Calcutta-COMPASS Group (Matrivani Institute of Experimental Research Education), Calcutta-700 030, India
Lie group analysis of a Powell-Eyring nanofluid flow over a stretching surface with variable properties	Dr. Hiranmoy Mondal	SN Applied Sciences	2019	24	6	Department of Mathematics, Durgapur Institute of Advanced Technology and Management, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, 713212, India Department of Mathematics, Durgapur Institute of Advanced Technology and Management
Spectral Quasi-Line	Dr. Hiranmoy	Entropy	2019	24	14	Department

arization Method for Non-Darcy Porous Medium with Convective Boundary Condition	Mondal					of Mathematics, Durgapur Institute of Advanced Technology and Management, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, 713212, India
A multivariate spectral quasilinearization method for entropy generation in a square cavity filled with porous medium saturated by nanofluid	Dr. Hiranmoy Mondal	Case Studies in Thermal Engineering	2019	24	14	Department of Mathematics, Durgapur Institute of Advanced Technology and Management, Maulana Abul Kalam Azad University of Technology, Kolkata, West Bengal, 713212, India
Design of routing protocol for multi-sink based wireless sensor networks	Dr. Sankar Mukherjee	Wireless Network, Springer	2019	5	9	Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand, 826004, India
An	Dr.		2019	5	19	

efficient and batch verifiable conditional privacy-preserving authentication scheme for vanets using lattice	Sankar Mukherjee	Computing				Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand, 826004, India
A Novel Broadcast Network Design for Routing in Mobile Ad-Hoc Network	Dr. Sankar Mukherjee	IEEE Access	2020	5	11	Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand, 826004, India
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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	1	4	0	0
Presented papers	2	5	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
Blood donation	DIATM and GIMSH	5	80
Cultural programme (dance, drama, elocution, music etc.)	ROCA Club DIATM	8	40
Participation in sports/games	YODDHA DIATM	4	95
Tree plantation and upkeeping	NSS Activity, DIATM with Local Authority	2	58

Fight back 4	YODDHA DIATM	3	40
Gender Equity	DIATM with Law College Durgapur	2	37
3rd rock climbing course	YODDHA with Mountaineering Club	4	20
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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
No Data Entered/Not Applicable !!!			
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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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Gender Issue	Gouri Devi Institute of Medical Sciences and Hospital	Medical Awareness	3	82
Cleanliness Drive	NSS E-Week	Clean Campus, Green Campus	4	38
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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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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
No Data Entered/Not Applicable !!!					
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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
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No Data Entered/Not Applicable !!!

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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
398.1	339.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
No file uploaded.	

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
KOHA	Partially	3.22.09.000	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	35470	50000	Nil	Nil	35470	50000
Reference Books	70	5000	Nil	Nil	70	5000
e-Books	3805	57820	Nil	Nil	3805	57820
Journals	79	164870	Nil	Nil	79	164870
e-Journals	7656	Nil	Nil	Nil	7656	Nil
CD & Video	194	Nil	Nil	Nil	194	Nil
Library Automation	1	68794	Nil	Nil	1	68794
Others (specify)	262	Nil	Nil	Nil	262	Nil
No file uploaded.						

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

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	350	6	0	1	1	1	1	20	0
Added	0	0	0	0	0	0	0	12	0
Total	350	6	0	1	1	1	1	32	0

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

32 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
NA	Null

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
37.45	27.21	360.55	322.32

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)

An educational institutions success is closely intertwined with the efficient management of its physical, academic, and support facilities. The seamless functioning of facilities such as laboratories, libraries, sports complexes, computers, and classrooms is pivotal in creating a conducive learning environment. To ensure the optimal utilization and maintenance of these resources, colleges must establish well-defined procedures and policies that encompass various aspects of facility management. Physical Facilities Management Physical facilities form the backbone of any college. Regular maintenance and timely upgrades are imperative to provide a safe and productive learning environment. A comprehensive policy should outline procedures for routine inspections, repairs, and renovations. Collaborating with maintenance staff and outsourcing specialized services can help address issues promptly. Allocating a portion of the budget specifically for facility upkeep ensures that resources are consistently available for necessary repairs and renovations. Academic Facilities Management The library, laboratories, and classrooms are integral to academic excellence. A policy for academic facility

management should include guidelines for scheduling classes, maintaining equipment, and ensuring cleanliness. Implementing an online reservation system for laboratories and rooms can streamline the booking process. Regular training for laboratory technicians and library staff ensures efficient handling of equipment and resources. Support Facilities Management Support facilities like sports complexes and computer labs contribute to students holistic development.

For sports facilities, a policy should encompass equipment maintenance, scheduling of matches and practices, and proper utilization of spaces. In computer labs, guidelines for maintaining hardware and software, as well as cybersecurity protocols, should be in place to safeguard digital resources. Resource Utilization Efficient resource utilization is key to avoiding waste and ensuring equitable access. Colleges should adopt policies to prevent overbooking of facilities and discourage hoarding of resources. Implementing a system to track resource usage and analyzing data can aid in identifying patterns of overuse or underutilization. Security and Access Strict security measures should be outlined in policies to safeguard all facilities. This may include installing surveillance cameras, employing security personnel, and implementing access control systems. Additionally, defining access levels for different categories of users ensures that resources are accessed only by authorized individuals. Environmental Sustainability Modern facility management policies should incorporate sustainability practices. Implementing energy-efficient lighting, water-saving fixtures, and waste recycling initiatives contribute to the institutions eco-friendliness. Furthermore, educational campaigns can raise awareness among students and staff about their roles in maintaining a sustainable campus. Emergency Preparedness Unforeseen circumstances like natural disasters or accidents can disrupt facility operations. Colleges should establish procedures for emergency evacuation, medical assistance, and communication during such events. Conducting regular drills ensures that the college community is well-prepared to handle emergencies. Effective management of physical, academic, and support facilities is vital for a colleges success. By developing comprehensive policies and procedures, institutions can create an environment conducive to learning and personal growth. These policies not only ensure optimal utilization of resources but also uphold safety, sustainability, and overall efficiency. Through their commitment to facility management, colleges can create an environment that empowers students and educators alike to thrive.

<https://diatm.rahul.ac.in/web/>

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	NA	0	0
Financial Support from Other Sources			
a) National	NA	0	0
b) International	NA	0	0
No file uploaded.			

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

Soft skill Development	09/07/2019	150	In-House
Remedial coaching	02/08/2019	100	In-House
Language lab	17/09/2019	70	In-House
Bridge courses	07/06/2019	80	In-house
Yoga	30/09/2019	200	In-House
Personal counselling and mentoring	06/01/2020	70	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
2019	Career Counselling programme	400	400	200	120
2019	Pre-placement Training Programme	400	400	250	120
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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
12	12	6

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
TCS	30	5	Value Prospect	40	21
View File					

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	1	B.Tech	Electrical Engineering	National Institute of	Master of Technology,

No file uploaded.

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	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
Annual Sports	Institution	150
Cricket Tournament	Institution	104
Teacher's day Celebration	Institution	80
Freshers Welcome	Instituion	200
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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
2019	NA	Null	Null	Null	Null	Null
No file uploaded.						

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

The college constituted "Students Council" for every academic year. At least two meetings of the students? council were organized every year. The composition of "Students? council" is as follows: • Principal - Chairman of the Student Council • A Lecturer nominated by the principal - Member • NCC officer - Member • NSS Programme Officer - Member • The Director of sports and physical Education - Member

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

No Data Entered/Not Applicable !!!

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

No Data Entered/Not Applicable !!!

5.4.4 – Meetings/activities organized by Alumni Association :

No Data Entered/Not Applicable !!!

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 are crucial practices that empower employees, enhance decision-making, and foster a collaborative environment in an organisation. Implementing these practices can lead to improved efficiency, innovation and overall institutional growth. The two practices of decentralization and participative management are given below:

Delegated Decision-Making - Decentralization involves transferring decision-making authority from higher levels of management to lower levels. It means granting head of the departments and faculty members the autonomy to make decisions related to curriculum design, student projects, and resource allocation within their respective departments. This approach empowers employees, foster quicker responses to challenges, and promotes a sense of ownership and accountability. Empowered teams can also experiment with new ideas and solutions, fostering a culture for innovation and creativity. Moreover, it demonstrates trust in employees' abilities, boosting their morale and confidence. It also promotes better communication between different levels of the organization. Different units or departments may require different approaches. Delegation allows decisions to be tailored to specific contexts

Participative Management - Participative management is an organizational approach that involves employees including faculty and staff members in the decision making process. This approach seeks to harness knowledge, insights, and the creativity of the employees by encouraging their active participation in shaping the organization's goals, strategies, and operations. It fosters a collaborative and inclusive work environment where employees are considered partners in the decision-making process rather than passive recipients of directives from higher management. Participative management encourages the involvement of employees from diverse backgrounds, positions, and skill sets. It recognizes that different perspectives contribute to more well-rounded and informed decisions. Employees are provided with relevant information about the organization's goals, challenges, and performance. This transparency ensures that decisions are based on accurate and complete data. Participative management encourages a culture of continuous improvement by keeping the employees engaged in the ongoing refinement processes, systems, and practices. It also contributes to the creation of a collaborative and open organizational culture where employees feel valued and respected.

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
Curriculum Development	Focus was given to design a dynamic and industry-aligned program. A job-oriented add-on course supplements the core curriculum by focusing on practical skills demanded by industries. Both core engineering principles and emerging technologies were incorporated in the curriculum to

ensure that the students acquire relevant skills. Such courses enhance employability, giving students a competitive edge in the market. The courses were designed in consultation with industry experts to ensure relevance and alignment with current industry needs.

Teaching and Learning

To create a dynamic and effective teaching and learning environment, a student-centric approach was employed to accommodate different learning styles and abilities. Interactive teaching methods was adopted to engage students through discussions, group work, and hand-on projects and educational technology tools were utilized to create experiential learning experiences. Integration of real-world case studies and industry projects into the curriculum, bridges the gap between theory and practice. Feedback mechanisms were established so that students can use this input to identify the areas for improvement on courses and teaching methods.

Examination and Evaluation

The examination system was made to promote comprehensive assessment, fairness, and alignment with learning objectives. A mix of assessment methods such as written exams, practical tests, presentations, and projects were incorporated in the assessment process to measure diverse skills. Standardized well-defined grading rubrics and assessment procedure was made mandatory to maintain consistency and fairness across different evaluators. Uniformity in question paper formats, difficulty levels, and grading standards across different departments of the same course was ensured. Open book examination system was introduced to complement with other assessment method to assess students' problem-solving abilities and practical application of engineering concepts.

Research and Development

A long term RD roadmap outlining goals, milestones, and resource allocation was devised. To support cutting-edge research, state-of-the-art laboratories, equipment, and technology need to be enhanced. Partnerships with industries were done for collaborative research projects, internships, and technology transfer. Research funding from external government agencies and

private organizations is required.

Faculty members and students were encouraged to publish their research findings in reputed journals and to present at conferences. Implementation of these strategies helps to foster a vibrant research ecosystem that contributes to technological advancements, societal well-being, and the overall growth of the institution.

Library, ICT and Physical Infrastructure / Instrumentation

We have diverse collection in our library and are committed to regularly update the library's collection with current and relevant resources, including physical books, e-books, journals, and online databases. We have already invested in a reliable and high-speed network infrastructure to support seamless connectivity across the campus. We planned to implement user-friendly Learning Management Systems and online platforms for course materials, assignments, and communication. We also planned to offer regular training sessions to ensure all users are proficient in using digital tools and platforms effectively. We have a regular maintenance plan and already implemented eco-friendly practices.

Human Resource Management

Human Resource management involves creating an environment that fosters employee development, engagement, and overall organizational success. Keeping this in mind, we implemented regular performance reviews that focus on genuine feedback, development, and goal alignment. We also offer a range of training programs and opportunities for skill enhancement and career growth. We also support ongoing learning through workshops, online courses, and mentorship. We have taken initiatives to offer wellness programs that address physical, mental, and emotional well-being and will be providing resources for stress management, fitness, and mental health support.

Industry Interaction / Collaboration

We have developed partnerships with companies like Mejia Thermal Power Plant, Graphite India Ltd., Matix Fertilisers and Chemicals Ltd. and many more to offer students real-world internships, fostering practical skills and industry exposure. We also invite professionals for guest lectures, workshops, and seminars to share

insights and expertise with students and faculty members. We do collaborate on projects that address real industry challenges, allowing students to apply their knowledge in a practical setting. Regular communication with industry partners is also maintained. We regularly update the curriculum to reflect industry needs and technological advancements. We keep connections with our alumni to facilitate industry partnerships, mentorship, and guest speaker opportunities.

Admission of Students

We maintain an informative and user-friendly website that provides clear information about the admission process, deadlines, and requirements. We give focus on evaluating candidates' core competencies relevant to engineering, such as mathematics, physics, and problem-solving skills. We offer scholarships based on merit to attract a diverse range of talented students. Need-based financial aid programs are also established to ensure access for students from diverse socioeconomic backgrounds. We involve alumni in the admission process, allowing them to interact with and evaluate potential candidates. We also provide training to admission staff to ensure fair, unbiased, and consistent evaluation of applicants.

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

E-governance area	Details
<p>Planning and Development</p>	<p>By implementing e-governance in planning and development section, we are able to streamline operations, improve communication, enhance transparency, and provide a more efficient and convenient experience for students and faculty members. It improved the service quality as the process became standardized and data-driven. It enables digital storage of records, making it easier to manage student data, faculty profiles, and academic progress. Through this tool, the department can efficiently manage resources and optimize its utilization</p>
<p>Administration</p>	<p>Implementing e-governance in the administration involves using digital technologies to streamline and improve various administrative processes. It enhanced our efficiency, transparency</p>

	and accessibility in the administrative operations. E-governance also automates manual tasks and processes, reducing paperwork and manual intervention. Automation and digitization also helps us in saving cost. E-governance enables us in efficient storage, retrieval, and analysis of data, leading to informed decision-making. This helps us in making strategic planning and resource allocation.
Finance and Accounts	We have introduced online fee payment options for students and parents allowing them to pay tuition fees, hostel fees, and other charges through secure online portals. We also have an automated payroll system that ensures accurate salary calculations, tax deductions, and timely payments to employees. We also manage student scholarships through an online platform, simplifying the application, selection and disbursement processes. We have implemented robust data security measures to protect sensitive financial information and ensure privacy.
Student Admission and Support	Centralized entrance examination (WBJEE and JEE Main) and counselling is the practice of student admission for B.Tech courses. Here college follows central admission portal provided by Joint Entrance Examination Board.
Examination	Examinations are subject to the guidelines provided by affiliating university (MAKAUT, WB), college only conducts examination as guided. University portal for examination system are used regarding all (examination, evaluation, uploading of internal marks etc.) related matter

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	Koushik Mukhopadhyay	FDP on Nanotechnology	NIT Durgapur	1500
2020	Saikat Ghosh	WEES-2020	NIT Durgapur	2000
2020	Saikat Mondal	ICAME-2020	Aliah University, Kolkata	1500

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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)
2019	Workshop on Teaching Research Methodology	Nil	20/11/2019	22/11/2019	42	2

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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
FDP on Student Induction Programme	2	18/07/2019	20/07/2019	3
Nano Technology Recent Development and Future Prospect	24	12/03/2020	16/03/2020	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
10	10	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
0	1	2

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 done Quarterly and external audit annually by Pranay Dutta Gupta (M No. 057340).

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
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NA	0	NA
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6.4.3 – Total corpus fund generated

0

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	Null	Yes	IQAC
Administrative	Yes	Null	Yes	IQAC

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

1. Regular meeting with Parent and teacher 2. Awareness to provide guidance for anti-ragging campaigning 3. Exploring provision of Industrial Training / Visit / Employment in some Industries / PSU where some of the parents and sufficient connection

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

1. Encouragement for Higher Education. 2. Switching internally into different sectors for a time being for vivid experience and expertise. 3. Regular training programme for skill enhancement.

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

1. Effort to engage more PhD faculties specially for engineering branches. 2. To increase the student admission by quality enhancement. 3. Aim to involve students in good project works which will increase the number of student publications.

6.5.5 – Internal Quality Assurance System Details

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

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	Workshop on strategies for improvement of teaching quality	01/12/2019	01/12/2019	02/12/2019	72
2020	Workshop on how to improve academic infrastructure	20/03/2020	20/03/2020	21/03/2020	69

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platform to
overcome
upcoming
pandemic
situation

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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
Gender Discrimination- Universal challenge	23/08/2019	23/08/2019	50	74
Challenges of Women in Workplace	23/11/2019	23/11/2019	56	62

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

1. Environmental Policy: Institutions must have a well-defined environmental policy that outlines their commitment to sustainability and sets clear objectives and targets. This policy should address various aspects such as waste management, energy conservation, and promoting renewable energy. 2. Energy Audit: Conducting regular energy audits is important to assess the energy consumption patterns within the institution. This helps identify areas where energy conservation measures can be implemented and alternate energy sources can be harnessed. 3. Renewable Energy Sources: Institutions should explore and invest in alternative energy sources such as solar power, wind energy, hydroelectricity, or biomass. Installing solar panels, wind turbines, or small-scale hydroelectric plants can help meet a significant portion of the institutions energy demand. 4. Energy Conservation Measures: Implementing energy conservation measures within the institution can significantly reduce energy consumption. These measures may include retrofitting lighting systems with energy-efficient LED bulbs, using motion sensors to control lighting, optimizing HVAC systems, and promoting awareness among staff and students about energy-saving practices. 5. Waste Management: Institutions should develop robust waste management systems that include recycling, composting, and proper disposal of hazardous waste. Implementing a waste segregation program and conducting regular awareness campaigns can help minimize the environmental impact of waste generated by the institution. 6. Green Infrastructure and Landscaping: Institutions should actively promote green infrastructure and landscaping techniques on their campus. This includes planting native trees and plants, creating green roofs, and using rainwater harvesting techniques to conserve water resources. 7. Research and Innovation: Encouraging research and innovation in the field of renewable energy and sustainability is crucial. Institutions should allocate adequate resources for research projects related

to environmental conservation, renewable energy, and sustainable practices. 8. Curriculum Integration: Institutions should integrate sustainability and environmental consciousness into their academic curriculum. This can be achieved by including relevant courses, conducting workshops, and promoting research on environmental issues among students and faculty. 9. Collaborations and Partnerships: Institutions should collaborate with governmental organizations, NGOs, and industries working in the field of renewable energy and sustainability. This facilitates knowledge sharing, access to funding, and implementation of innovative projects. 10. Monitoring and Evaluation: Regular monitoring and evaluation of environmental initiatives is crucial to assess their effectiveness. Institutions should establish mechanisms to track energy consumption, waste generation, and the impact of sustainability measures. This data can then be used to continua

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	No	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	8
Braille Software/facilities	No	Nil
Rest Rooms	Yes	40
Scribes for examination	Yes	2
Special skill development for differently abled students	No	Nil
Any other similar facility	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	4	2	25/05/2019	2	1. Bank ATM facility 2. Essential Medical facility Medical college hospital in our campus. 3. Good Transportation	Kanksa Gram Panchayat	90

facility
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Industry
facility
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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)
<p>A code of conduct handbook for students</p>	<p>15/01/2019</p>	<p>The Student Code of Conduct Handbook is designed to promote a safe and inclusive learning environment for all students, in accordance with university guidelines. It outlines expectations and responsibilities for students, ensuring their actions align with the values of respect, integrity, and academic excellence. Students are expected to be punctual, attend classes regularly, and submit assignments on time. They must demonstrate honesty in all academic work, avoiding plagiarism and cheating. Respectful behavior towards peers, faculty, and staff is imperative, fostering an atmosphere of collaboration and open-mindedness. Any violations of the code may result in disciplinary actions, aimed at maintaining a harmonious academic community.</p>

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2019	15/08/2019	75
Women's day	08/03/2019	08/03/2019	50
Anti tobacco day	31/05/2019	31/05/2019	40

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

Green Campus Policy 1) Ban on use of Plastic: 2) Landscaping with trees and plants: 3) Energy saving: Energy audit to be conducted through a certified agency. 4) Solar power Campus lights 5) Biodiversity in the institute campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice:- Innovation in Teaching Learning Method a) For faculty and staff members b) For students

1. Objectives of the practice: The objective of this methodology is to believe in the evolution of teaching and learning methods and what is the best method of reaching out to the students.

Response:

1. Institutional best practices, as per the NAAC (National Assessment and Accreditation Council) format, refer to the recommended guidelines and standards that educational institutions should follow to ensure quality and excellence in their operations. These practices cover various aspects of an institutions functioning, including governance, leadership, teaching-learning process, infrastructure, research, and community engagement.

2. Student Support Services: The institution should provide comprehensive support services to students, including academic counseling, career guidance, financial aid, and health services. It should also establish mechanisms to address grievances and promote a conducive learning environm.

3. Project-based learning: Project-based learning is mainly used for self-learning to improve the learning ability of students and to reinforce knowledge received during the lecture. Being a technical institute, this method is extensively used to provide practical evidence of the theory learned. Students are asked to prepare projects with a clear concept of the principles learned. The teacher guides the students at various stages of developing the project, and further gives timely inputs during the preparation of the project work.

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

<https://diatm.rahul.ac.in/web/best-practices/>

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

1. One area where the institution has excelled and set itself apart is in its commitment to promoting environmental sustainability. This vision, priority, and thrust towards sustainability has been apparent in all areas of the institutions operations and has yielded impressive results.

2. From the top-down, the institutions leadership has embraced the importance of environmental sustainability and has integrated it into the institutions strategic plan. This commitment is not merely lip service, but rather a core value that is reflected in the institutions actions and policies.

3. In terms of infrastructure, the institution has made significant investments in energy-efficient technologies and practices. The institution has installed solar panels on its buildings,

implemented energy-efficient lighting systems, and adopted smart building automation systems to reduce energy consumption. These efforts have resulted in a substantial reduction in the institutions carbon footprint, leading to energy savings and cost reductions. 4. The institution has also taken steps to ensure that its operations are environmentally responsible. For example, it has implemented recycling programs throughout its campuses, encouraging students, faculty, and staff to recycle and reduce waste. Additionally, the institution has partnered with local organizations to promote the use of renewable energy sources, such as wind and solar power. 5. Education and awareness are also key components of the institutions sustainability efforts. The institution offers courses and programs focused on sustainability, including environmental science, renewable energy, and sustainable development. It also regularly organizes workshops and seminars on various sustainability topics, bringing in experts from different fields to share their knowledge and experiences. 6. The institutions commitment to sustainability extends beyond its own walls. It actively participates in community engagement initiatives to promote environmental awareness and sustainable practices. For example, it collaborates with local organizations to organize tree-planting campaigns, clean-up drives, and environmental awareness campaigns. By involving the wider community, the institution is able to create a larger impact and influence positive change in the region. 7. The results of the institutions sustainability efforts have been impressive. Not only has it reduced its own environmental impact, but it has also become a leader and role model in promoting sustainability within the education sector. The institution has received numerous awards and recognition for its environmental initiatives, including being ranked as one of the most sustainable institutions in the country. 8. Furthermore, the institutions focus on sustainability has had a positive impact on its reputation and student enrollment. The institution has seen an increase in the number of students who are attracted to its sustainability programs and initiatives. Students are drawn to the institutions commitment to environmental responsibility and want to be part of a community that values sustainability. 9. In conclusion, the institutions performance in the area of environmental sustainability is outstanding and distinctive to its vision, priority, and thrust. Through its infrastructure investments, operational practices, educational programs, and community engagement, the institution has demonstrated its commitment to promoting sustainability. The results speak for themselves, with reduced carbon emissions, cost savings, and a positive impact on the wider community.

Provide the weblink of the institution

<https://diatm.rahul.ac.in/web/institutional-distinctiveness/>

8.Future Plans of Actions for Next Academic Year

1) To increase the number if ICT rooms and WIFI enabled class rooms 2) To motivate students for MOOCs courses and the faculty members to select the trending subjects and mentor accordingly. 3) Motivate faculty members to attend FDPs including the AICTE approved FDPs under MOOCs. 4) To offer students of all the departments for at least one innovative lab experiment in each semester. 5) To motivate and engage students for social work, work for people belonging to underprivileged sector and to promote for gender equality. 6) To hold collaborative Seminars with the dignitaries from industries to broaden the outlook of the students. Industry and academia collaboration help the students to meet corporate and industry expectations and requirements and prepared themselves accordingly. 7) To develop smart classes for imparting quality education. The audio/visuals displayed through the equipment are intriguing for students and helps build interest, works in sharpening the creative imagination of students. 8) To engage students in different activities as industrial visit, internship etc. 9) More outdoor games for boarders. Playing outdoors allows children to develop self-confidence, physical endurance, independence and self-esteem. 10) To

hold more library classes mandatorily, to promote reading habits among students. 11) To incorporate some life skill trainings to empower the students and apply in their day to day life. 12) To arrange regular parent teacher meeting to encourage students to work on themselves, improve their academic performance and widen their skills. 13) To establish Incubation Cell to encourage students for various start up activities. Also giving opportunity to prospective students to bring out innovative ideas through competitions, exploring innovative and creative thoughts. 14) Involve students for more entrepreneurship activities.