



Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
Name of the head of the Institution	Prof. (Dr.) Satyajit Chakrabarti
Designation	Director
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	03323572969
Mobile no.	9903846956
Registered Email	director@iemcal.com
Alternate Email	iqac@iemcal.com
Address	Gurukul, Y-12, Block-EP, Salt Lake Electronics Complex, Sector - V
City/Town	Kolkata
State/UT	West Bengal
Pin code	700091
2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	Private
Name of the IQAC coordinator/Director	Prof. (Dr.) Arun Kumar Bar & Prof. Sanghamitra Poddar
Phone no/Alternate Phone no.	+919433310775

Mobile no.	+919433586880				
Registered Email	iqac@iemcal.com				
Alternate Email	<u>arun.bar@iemcal.com</u>				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	https://iemgroup.s3.amazonaws.com/uploads/2020/01/5d8c62205cf81_aqar_report.pdf				
4. Whether Academic Calendar prepared during the year	Yes				
if yes, whether it is uploaded in the institutional website: Weblink:	https://iem.edu.in/academic-calendar/				
5. Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.25	2017	09-Jun-2017	08-Jun-2022
6. Date of Establishment of IQAC			30-Apr-2015		
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	
Conducted International conferences to promote quality, research & development, encourage students to pursue higher education – 1. CTMSE 2. ICELTS 3. Biospectrum 4. Coding competition (Decipher) CODECHEF 5. IEMENTECH 6. IEMRE 7. ICCAES 8. International Conference and HR Congress on “Impact of emerging	1.	18th July-20th July, 2019		1.	137
	2.	25th – 27th July, 2019		2.	142
	3.	8th August-10th August, 2019		3.	128
	4.	17th – 18th August 2019		4.	182
	5.	29th – 31st August, 2019		5.	147
	6.	14th -15th September, 2019		6.	152
	7.	19th – 21st September, 2019		7.	124
	8.	21st – 22nd September, 2019		8.	234
	9.	23rd – 25th September, 2019		9.	152
	10.	23rd -25th September, 2019		10.	132
	11.	25th – 27th September, 2019		11.	144
	12.	17th – 19th October, 2019		12.	142
				13.	112
				14.	162
				15.	146
				16.	132

technologies on employment”	13. 17 th – 19 th October, 2019	17. 163
9. IEMERA	14. 9 th November, 2019	18. 145
10. CIIR	15. 28 th – 31 st October, 2019	19. 127
11. UEM GREEN	16. 14 th – 16 th November, 2019	20. 168
12. IEMCON	17. 22 nd – 23 rd November, 2019	21. 127
13. IEMANTENNA	18. 4 th - 5 th January, 2020	22. 125
14. IEMCO	19. 27 th – 30 th January, 2020	23. 134
15. UEMCON	20. 27 th – 30 th January, 2020	24. 142
16. IEMPHYS	21. 7 th -9 th February, 2020	25. 186
17. Convention 2019 on the theme ‘Bizanalyticz’	22. 20 th -22 nd February, 2020	26. 136
18. CIPR	23. 22 nd February, 2020	
19. IEMPOWER	24. 14 th – 15 th March, 2020	
20. CCWC	25. 26 th – 27 th June, 2020	
21. IEMSC	26. 2 nd - 4 th July, 2020	
22. Digital Marketing , Social Media Marketing & International Business		
23. International Conference & HR Congress on "Impact of Emerging Technologies on Employment"		
24. UEM MUN		
25. International Conference and HR Congress on “Living with the Covid”		
26. IEMIS		
Teachers were encouraged to attend & organise faculty development program	3 rd August, 2019 (5 Days)	155
Internal academic audit both at departmental and institutional level	11th August, 2019 (1 Day)	250
External academic audit has been conducted by a team of external experts	25 th August, 2019 (1 Day)	25
Budgetary provisions were discussed & upgraded for R&D	28 th August, 2019 (1 Day)	145

activities in the college				
Feedback was collected from students, employees, parents, alumni of various departments. These reports were analysed through IQAC quality management members & different improvements were suggested.	6 th September, 2019 (1 Day)		4754	
Development of soft skills and personalities of the students by organising training programme	13 th September, 2019 (3 Days)		167	
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
Applied Materials Research Laboratory Lab	RESEARCH PROMOTION SCHEME (RPS)	AICTE	2020 3 Years	Rs. 16 Lakhs
View Here				
9. Whether composition of IQAC as per latest NAAC guidelines:	Yes			
Upload latest notification of formation of IQAC	View Here			
10. Number of IQAC meetings held during the year:	4			
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes			
Upload the minutes of meeting and action taken report	View Here			
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)				
<ul style="list-style-type: none"> • First batch of autonomous students is initiated successfully. • Study Abroad Program (SAP) is initiated successfully at Canada, United States, England, Singapore and Australia. • Faculty were motivated to publish research papers in peer reviewed journals and conferences. The registration fees of research events are done by the institute. 				

- The IQAC has conducted academic audits and organized conferences at the National and International Level.
- Conducted placement training, foreign lecture series and initiated different club activities.

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 2019-2020

Plan of Action	Achievements/Outcomes
To conduct quality awareness campaign	The IQAC has conducted quarterly meetings under the chairmanship of the Principal and detailed plans and programmes were formulated for quality awareness.
Digitization	e-file system is promoted to encourage the practice of paperless office, online grievance redressal system was suggested, online fees payment, online classes are conducted using different online platforms like YouTube live, Google hangouts meet, etc and different online Webinars were taken by well-known Professors of reputed National and International Universities.
Minimizing environmental degradation	Decreased use of paper and plastic. Optimization of existing infrastructure. Tree plantation.
Development programmes & improvement in research publications	Workshop conducted for students on recent development in technological arena. Orientation programmes for faculties on teaching and research methodology. Counseling session for students. Faculty members are instructed to submit 5 research papers in Scopus indexed conferences, 1 SCI journal per year. Faculties are encouraged to apply for patents. Various incentive schemes for publishing research papers and patents were formulated.
Fulfilling social responsibilities	Remedial Class for weaker students in especially English language, Mathematics, Physics for 1st year students. Books, clothes, food, medicine donation camps for slum dwelling children. Evening classes for the under privileged children. Regular motivational talk series like Smart Power Talks is organized to encourage common people, especially the youths.
To Encourage meritorious faculty, employees and students by presenting them with awards, prizes and recognition certificates by IEM	Institute has given academic awards, best teacher's award. The meritorious students were given gold medals, prizes and cash awards during the annual fest of the institute. Institute

	recognizes the overall best student of the year with "B.B.Ghosh Memorial Award".
To collect feedback from students on 10 quality parameters related to curriculum, teaching learning and evaluation process	An online system feedback from students of each department after every class are collected and analyzed. These were sent to the departmental heads for communicating
To collect feedback from parents, employee and alumni	Feedback were collected on sample basis and analyzed. The consolidated report was placed before the management for effective implementation of the suggestions received from them.
Participation from stakeholders	Alumni meetings are continuously arranged, annual alumni meet organised to discuss and enhance wholesome education and development. Principal of the institute continuously interacts with the students to discuss various aspects.
Enabling better participation from the differently abled	Ramps on campus are present. Audio Visual Board for differently abled is installed. Easy access to lifts is ensured. Toilets are equipped with hand railings.
To collect evaluation report of faculty and department evaluation report	Reports of all faculties were collected from the students and were analyzed by the HR cell. The consolidated report is placed before the management and communicated back to the faculty.
14. Whether AQAR was placed before statutory body?	Yes
Name of Statutory Body	Meeting Date
IQAC	27 th July, 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
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)	IEMCRP at IEM, Kolkata (https://www.iemcrp.com) is the concept of Academic ERP which aims not only at achieving operational excellence in Institutions, but also make its stakeholders, the beneficiaries of the system. As academic ERP concept provides number of

	<p>options through which, an Institution can share the information stored with the parents and other stakeholders and make them feel to be a part of the Institution itself. It includes the number of modules, proved beneficial to achieve the operational and functional efficiencies, monitoring and optimizing the management processes & operations and enhancing coordination across the various departments in the Institution.</p> <ol style="list-style-type: none"> 1. <u>Admissions</u>: This module makes admission process automated. It generates the report on the seat allotment by convener and its status like sliding of branches etc. Out of the students applied for seats under B Category merit list is prepared and offered them in the order of merit. Roll lists are also generated. 2. <u>Academics Course Management</u>: Creates Course based on Program, regulation, semester, branch. Faculty Course Mapping, Academic Calendar, Teaching methodologies and Elective Settings are offered. 3. <u>Class Management</u>: It creates Branch wise and Student wise Attendance. Time Slots, Time Tables, section, sub section, open elective, student attendance, extra class, class suspension and lab swapping facilities are provided. 4. <u>Student Management</u>: Student, re-joined student, readmitted student, substitute subject, student ID card and Bulk updating options are provided 5. <u>Examination and Evaluation Process</u>: The functionality for student examination registration for end semester and creating seating arrangement for students. It facilitates the Nominal Rolls, Room and Branch(s) wise on a date of examination for both Internal/External. Provides the functionality for generation of Admit Card and Internal Marks Entry by faculty. 6. <u>HR Module</u>: Provide functionality for creating holidays, various leaves, creating user and assign roles, reference data, service-book, Pending Approvals, Employee's Shift, Employee ID Card and define workflow. 7. <u>Accounts and Payroll</u>: Various account related functionalities are created like payment status, part-payment, and ledger maintenance etc. payrolls can be created and the pay scales and Payroll details can be revised according to
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dynamically changing DA time to time.

8. Learning Management Systems: To create assignments/ attach file with mathematical equations if required for the students along with indication of marks, description and deadline for submission. Select the students for assignment submission.

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

Institute of Engineering & Management is currently having the following mechanisms for effective delivery of curriculum-

- i. Before the academic session/semester starts, a series of departmental meetings are held in every department in which the subjects are distributed to the teachers after discussion with them.
- ii. Number of classes for each subject is decided according to the syllabus and credits assigned to each module etc.
- iii. Each department provides a well-structured *Routine* for each year /semester classes.
- iv. Teachers prepare their complete course material and upload in IEMCRP (<https://www.iemcrp.com/>) and IEMLEARNING (<https://www.iemlearning.com/>) according to the syllabus allotted and classes available.
- v. Classes are held according to the schedule under the supervision of HOD.
- vi. We have a very rich wi-fi enabled central library working on KOHA software with open access system working 24x7 along with rich Departmental libraries too for the benefit of the students. A good number of Journals are subscribed by our college.

Our college has registered for NPTEL (National Programme On Technology Enhanced Learning) where students can have the access of e-learning through online Web and Video courses for various streams.
- vii. Various classroom teaching methods based on various needs of different subjects are extensively used for the effective delivery of the curriculum such as:
 - a. All classrooms are equipped with OHP & LCD projectors, smart board.
 - b. ICT-enabled teaching-learning method with different software.
 - c. Sharing of teaching material through CRP by teachers.
 - d. Availability of all lecture videos in Gymkhana TV and
 - e. Series of seminars, webinars, conferences, workshops are conducted.
 - f. Paper presentation by the students at every platform is encouraged.
 - g. Tri-mentoring by faculties, alumnus and industry personnel are carried out.
 - h. Proper and adequate instrumentation facility is given to the students for their practical classes; there is also a central instrumentation facility for that purpose.

- viii. Daily on-line class test through CRP, mid semester examinations, two semester viva, regular assessment & viva-voce in practical classes are done to keep track on the improvement of the students. Remedial and tutorial classes are also conducted based on requirement.
- ix. Departments maintain the detailed record of the classes, assessments, project reports etc. Institute also keeps a vigilant eye on the results, departmental proceedings and student needs and keeps record of the different activities of the college regarding teaching- learning, development and improvements of different methods of effective curriculum delivery.
- x. The Board of studies (BOS) at PG & UG Levels constitutes of members from industry, expert faculty and student alumni. The Meeting of the BOS is conducted at regular intervals. The ideas obtained from the various bodies are thoroughly discussed by the experts and forwarded to MAKAUT. The feedback collected from the students and alumni for curriculum and suggestions are placed in BOS meetings. Analysis of all collected feedback done on the employability and value-based education.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year 2019-2020

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/ entrepreneurship	Skill Development
Workshop on AutoCAD Electrical	NA	3 rd August, 2019	6 day	focus on employability	To develop skill on AutoCAD design
Entrepreneurs hip Development Workshop	NA	19 th September, 2019	6 days	focus on entrepreneurship	Entrepreneurship skill development
Machine Learning	NA	13 th June, 2020	10 days	focus on employability	Machine Learning Skill Development
Internet of Things (IoT)	NA	13 th June, 2020	10 days	focus on employability	IoT Skill Development
Short Course : Digital Marketing	NA	14.04.2020 to 09.05.2020	20 days	focus on employability	Digital Marketing Skill Development
Short Course : IOT and Machine Learning Hands on for Beginners	NA	14.04.2020 to 09.05.2020	20 days	focus on employability	Machine Learning Skill Development
Short Course : Cryptography and Blockchain Basics	NA	18.05.2020 to 20.06.2020	20 days	focus on employability	Cryptography and Blockchain Basics Skill Development
Short Course : Machine Learning with	NA	18.05.2020 to 20.06.2020	20 days	focus on employability	Machine Learning Skill Development

Python programming					
Electric Machine	NA	January-July, 2020	6 months	focus on employability	Electric Machine Skill Development
Digital Electronics	NA	January-July, 2020	6 months	focus on employability	Digital Electronics Skill Development
Environmental Science	NA	January-July, 2020	6 months	focus on employability	Environmental Science Skill Development
Advances in Robotics & Mechatronics – Multidisciplinary System Engineering	NA	09.12.2019 to 20.12.2019	10 days	focus on entrepreneurship	Updating the knowledge of students about the latest trends used in industry and research
latest industry trends and innovation	NA	07.04.2020 to 20.04.2020	12 days	focus on employability	Updating the knowledge of students about the latest trends used in industry
Control System	NA	January-July, 2020	6 months	focus on employability	Control System Skill Development
Power System	NA	January-July, 2020	6 months	focus on employability	Power System Skill Development
Power Electronics	NA	January-July, 2020	6 months	focus on employability	Power Electronics Skill Development
Antenna Design	NA	August-September 2019	2 months	focus on employability	Design Software on Antenna skill development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme with Code	Dates of Introduction	Course with code	Dates of Introduction
Nil	Nil	Nil	Nil

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	UG	PG	Date of implementation of CBCS/Elective Course System	UG	PG

CSE	UG	PG	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	PG
ECE	UG	PG	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	PG
IT	UG	PG	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	PG
EE	UG	-	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	-
EEE	UG	-	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	-
ME	UG	-	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	-
BCA, M.Sc (CS)	UG	PG	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	PG
BBA	UG		13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)	UG	
MBA		PG	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)		PG
PGDM		PG	13 th January, 2020 (Odd Semester) 1 st July, 2020 (Even Semester)		PG

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

Number of Students	Certificate	Diploma Course
180	Workshop on AutoCAD Electrical	N.A.
502	Entrepreneurship Development Workshop	N.A.

335	Machine Learning	N.A.
247	Internet of Things (IoT)	N.A.
221	Short Course : Digital Marketing	N.A.
352	Short Course : IOT and Machine Learning Hands on for Beginners	N.A.
242	Short Course : Cryptography and Blockchain Basics	N.A.
172	Short Course : Machine Learning with Python programming	N.A.
248	Electric Machine	N.A.
152	Digital Electronics	N.A.
284	Environmental Science	N.A.
178	Advances in Robotics & Mechatronics – Multidisciplinary System Engineering	N.A.
146	latest industry trends and innovation	N.A.
132	Control System	N.A.
141	Power System	N.A.
120	Power Electronics	N.A.
221	Antenna Design	N.A.

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
Essential skills for professionals (Quantitative aptitude)	2 nd September, 2019	523
Essential skills for professionals (Finance)	4 th September, 2019	572
Essential skills for professionals (Design Thinking & Innovation)	2 nd April, 2020	647

Workshop on AutoCAD	3 rd August, 2019	132
Entrepreneurship Development Workshop	19 th August, 2019	157
Employment Enhancement Skill	21 st July, 2020	124
Soft Skill Development Course(Level – I)	23 rd July, 2020	167
Soft Skill Development Course (Level – II)	7 th January, 2020	165
Advanced Software Engineering Course(Level - I)	14 th July, 2020	152
Advanced Software Engineering Course (Level – II)	8 th January, 2020	154
TCS CodeVita Connect programming skill development course	2 nd September, 2019 – 29 th February, 2020	134
TCS EngiNX Connect programming skill development course	2 nd September, 2019 – 29 th February, 2020	126
Infosys HackWithInfy programming course	1 st August, 2019 – 31 th January, 2020	157
InfyTQ Contest	1 st August, 2019 – 31 th January, 2020	154
Capstone Project	21 st August, 2019	220
Hands on Training on Capital Markets	28 th August, 2019	237
Quantum Computing	7th January, 2020	705
Big Data	8th January,2020	715
Cloud Computing	9th January, 2020	649
Machine Learning	10th January, 2020	645
Applied Statistics	16 th June, 2020	725
Internet of Things	17 th June, 2020	695
Machine Learning	18 th June, 2020	685

Cybersecurity & Blockchain	19 th June, 2020	714
Business Analytics, Project, Skill Development Programme, Artificial Intelligence	21 July, 2019	251
Business Analytics, Project, Skill Development Programme, Artificial Intelligence	21 July, 2020	242
Aptitude training	3 rd August, 2019	414
Workshop on VLSI Design Tool	December 2019	142
workshop on IC Fabrication Technology	4 th November, 2019	126
3 days course on Self Defense for Women	March 8-10, 2020	141
Distinguished Foreign Lecture on Fluid Hydrofoil Interactions from Convertible Car Roofs to Rofoils, Dr Jason Knight, UK	21 st May, 2020	189
International Conference & HR Congress - Employment Scenario post Covid-19	23 rd May, 2020	365
Distinguished Foreign Lecture on Condition monitoring of machinery by Prof. Len Gelman, University of Huddersfield, UK	04 th June, 2020	284
Distinguished Foreign Lecture on Time to Act (COVID -19) by Mr. Giovanni Marocchi and Prof Monomita Nandy	20 th June, 2020	347
Global challenge to Global Transformation? By Aoife Foley, Pratama Yudha Pradheksa, Raphel Heffron and Tabitha M. Benney	28 th June, 2020	285
Distinguished Foreign Lecture by Mr. G. Moracchi (Dragan Values Ltd. , Italy)	28 th April, 2020	500
Distinguished Foreign Lecture by Mrs. M. Nandy (Brunel University, UK)	29 th April, 2020	500
Distinguished Foreign by Mr. D. Rio (Imperial College, UK)	14 th May, 2020	650
Distinguished Foreign by Mr. B. Sovacool (Sussex University, UK)	20 th May, 2020	625
Distinguished Foreign Lecture by Mr. B. Debic (Google Inc, USA)	22 nd May, 2020	450
Distinguished Foreign Lecture by	21 st May, 2020	525

Mr. J. Knight (Portusmouth University, UK)		
Distinguished Foreign Lecture by Mr. L. Gelman (University of Huddersfield, UK)	28 th May, 2020	550
Distinguished Foreign Lecture by Mr. R. Alfred (ETH Zurich, Switzerland)	30 th May, 2020	500
Distinguished Foreign Lecture by Mr. L. Gelman, (University of Huddersfield, UK)	04 th June, 2020	550
Distinguished Foreign Lecture by Mr. R. Heffron, (University of Dundee, UK)	19 th June, 2020	550
Distinguished Foreign Lecture by Mr. I. Maglogiannis, University of Piraeus, Greece)	22 nd June, 2020	525
Distinguished Foreign Lecture by Mr. D. Kalles (Hellenic Open University, Greece)	24 th June, 2020	490
Distinguished Foreign Lecture by Mr. L. Gelman (University of Huddersfield, UK)	30 th June, 2020	525
Distinguished Foreign Lecture by Mr. T. Stadelmann (ETH Zurich, Switzerland)	14 th July, 2020	532
Distinguished Foreign Lecture by Mr. A. Rufer (ETH Zurich, Switzerland)	23 rd July, 2020	525
Distinguished Foreign Lecture by Mr. G. Paliouras (Hellenic Open University, Greece)	29 th July, 2020	512
1.3.2 – Field Projects / Internships undertaken during the year		
Project/Programme Title	No. of students enrolled for Field Projects / Internships	
Power Generation from Railway Track (01.08.19-31.5.20)	5	
Package Transport Mechanism (01.08.19 – 31.05.20)	5	
Domestic Reefer Chamber For Maintaining Cold Chain In Rural Areas (15.07.19 – 31.05.20)	4	
Sustainable Building Development for slum Dwellers (15.07.19 – 31.05.20).	3	
Study and simulation of	4	

thermal treatment of PVC waste using ASPEN PLUS (15.07.19 – 31.05.20)	
To Study the Effect of Different Process Parameters on CNC Lathe on Aluminium, Brass & Gunmetal (15.07.19 – 31.05.20)	5
Mobile remote-controlled mechanism for handling hot forged items (15.07.19 – 31.05.20)	4
Design and Development of Multi Torch Flame Cutting Machine with Straight Line Motion (15.07.19 – 31.05.20)	4
Design and fabrication of compact turbojet engine for UAV. (15.07.19 – 31.05.20)	4
Design of Off Grid Solar System for a G+4 building (Mar'20 to Jun'20)	1
Establishing A Strong Digital Footprint at HDFC Bank	8
Comparative Analysis of Life Insurance Industry and Mutual Life Industry At IDBI Life Insurance	15
Financial Analysis of Discount, Debtors and Logistics At Dalmia Cements	1
Retail Banking Operation and Sales at Jana Bank	2
Employee Value Proposition at Hindalco	2
Outlet Fill Ratio at ITC Ltd	3
Wallet Share of Smartphone in Reliance Digital Stores at HCL Infosystems	1
Financial Analysis of Damodar Valley Corporation	6
Employee Taxation and Corporate Compliances at SREI Equipment Finance Limited	3
Result and Market Development at Times of India	20
End of Season Sale Analyzing at Pantaloons	20

Wedding Jewelry Management at Tanishq	2
Recruitment and Selection of Engineering At Paharpur Cooling Towers	2
CMA Data of Simoco Telecommunication (South Asia) Ltd.	1
Banking Finance Pre and Post Sanction Monitoring Challenges and Solutions On Retail Advances at Bank of Baroda	3
Finance for MSME at Bank of Baroda	5
SWOT Analysis of an Audit Firm with reference to Thakur & Co.	2
Customer Acquisition & Sales Promotion at Sasta Sundar. Com	5
A Study on Term Loan and Working Capital Management at Sumedha Fiscal Services Limited	1
IPD (In Patient Department), Corporate Desk at AMRI Hospitals	1
Analysis of Working Capital Management at Tata Steel Ltd with respect to JSW Steel Ltd at Tata Steel Limited	1
Employee Satisfaction Survey at Ultratech Cement Ltd	1
Project Internship at Technixia Automation Pvt. Limited	3
Winter Internship at Kreeti Technologies Pvt. Ltd.	1
Internship at Indian Oil Corporation Limited	2
Industrial Training at TATA Steel	24
Internship at eBluesoft	1
Internship at Tata Research & Development & Design Center	1
Internship atERTL	1
Internship at the TCS Innovation Labs-Pune	1
Internship at Elogix Software Pvt.	2

Ltd.	
Internship at HSR Layout	1
Internship at AQB Solutions Pvt. Ltd.	1
Innovation technological event conducted by AICTE	1
Summer Internship Programme	73
Field Survey- Nabadiganta, Customer Satisfaction Survey	25
Internship at WBSEDCL, Salt Lake, Sector V	78
Internship at Mejia Thermal Power Plant	16
Development of Automatic Navigation System for Agricultural Field-CDAC	6
The Fundamental of Digital Marketing	1
Internship at CODE DATA ADVANCED ANALYTICS	1
Internship at ONGC	4
Computer Science Department of Ramakrishna Mission Vivekananda Educational and Research Institute	1
Project and Internship at REBACA Technologies	6
Indian Oil Corporation Limited Marketing Division Eastern Region	1
Project at National Institute of Technology, Durgapur	1
Cookytech Technologies Pvt.Ltd.	1
Ardent Computer Pvt. Ltd.	5
Tata Institute of Fundamental Research	1
Project at Variable Energy Cyclotron Centre	2
Internship at ISM, Dhanbad	1
Internship at NIT, Raipur	3
Internship at NIT, Trichy	4
Internship at IISC Bangalore	1
Internship at Indian Railways	1
Internship at Cisco thing Qbator	2
Internship at Zreyas Technology Pvt. Ltd.	1

Internship at National Digital Library of India(NDLI), IIT KGP	1
Internship at Cvision.ai Analytics Pvt. Ltd.	1
Internship at TATA ELXSI Bangalore	1
Internship at National Informatics Centre	1
Internship at Smart Bridge Educational Pvt.Ltd	4
Internship at Indian Cyber Security & Solutions	2
Internship at Algo EnergyTech Ventures Private	1
Internship at Algo One AI	1
Internship at Alien Brains Private Limited	1
Internship at Cibertix Technologies LLP	2
Internship at Codespeedy Technology Private Limited	2
Internship at BetaCloud Technologies Pvt. Ltd.	1
Internship at Coding Ninjas	2
Internship at GLOBSYN	4
Internship at IEMLABS	3
Internship at cvDragon	1
Internship at Indian Institute of Technology, Bhubaneswar	1
Internship at Presidency University	1
Internship at Analysed.in	1
Internship at Crio.Do	3
Internship at Inspektlabs	1
Internship at GeeksforGeeks	1
Internship at Renaissance info Web Private Limited	2
Internship at Turku Intelligent and Embedded Robotic Systems (TIERS), University of Turku, Finland	1
Internship at Tata Consultancy Services	5

Internship at TCS Innovation Lab	1
Internship at EUNIMART	1
Internship at NRI FINTECH	2
Internship at Keysight Technologies	11
Internship at Amity University	1
Internship at Cognizant Technology Solutions India Private Limited	18
Internship at National Test House	9
Internship at TEXMACO, BELGHORIA	1
Internship at CENTRAL COAL FIELD LTD	1
Internship at CARRIAGE & WAGON WORKSHOP	3
Internship at JADAVPUR UNIVERSITY	3
Internship at AICTE AWARDS	5
Internship at Tata Advance System	1
Internship at KANTAR	7
Internship at JUBILANT FOOD WORKS(DOMINO'S)	8
Internship at MY HOLIDAY MAKERS INDIA PVT LTD	7
Internship at NEXA	7
Internship at DISCOVERY Communications	2
Internship at GROSUM	6
Internship at Britannia Industries	4
Internship at Flair Creatives	4
Internship at OUR SELF STUDY	3
Internship at BAJAJ FINSERVE	5
Internship at TIMES OF BENGAL	5
Internship at BAJAJ CAPITAL	2
Internship at NEROLAC Paints	1
Internship at National	1

Insurance	
Internship at CG POWER & INDUSTRIES	1
Internship at CRESENT POWER LTD	1
Internship at PINNACLE INFOTECH	1
Internship at PRAESUS TECHNOLOGIES (PAID)	1
Internship at Indian Railway	98
Internship at Place /Company	11
Internship at Chalktreet	1
Internship at Vecc/Barc	3
Internship at WSETCL	4
Internship at CESC	42
Internship at APSOLUTIO TECHNOLOGIES	1
Internship at S.E. RLY (KGP)	1
Internship at Wbpdcl	32
Internship atBHEL	9
Internship atHYUNDAI MOTORS	1
Internship at TTI, RINL - VSP (VIZAG STEEL)	5
Internship at ENGINEERS INDIA LTD (EIL)	1
Internship at DVC	39
Internship at ALL INDIA RADIO, KOLKATA	6
Internship at LILUAH, HOWRAH	1
Internship at CHOLORIDE POWER	2
Internship at IIT Bhubaneswar	1
Internship at MEJIA THERMAL, KOLKATA	1
Internship at Bccl	4
Internship at COAL INDIA LTD.	1
Internship at DPL	6
Internship at HALDIA ENERGY LTD	1
Internship at HALDIA DOCK	16

COMPLEX	
Internship at DURGAPUR STEEL PLANT	3
Internship at ITC, INFOTECH	2
Internship at IISCO	1
Internship at DLW	1
Internship at IBM	2
Internship at ZSR SOFTWARE	1
Internship at Tata Steel	5
Internship at VECC (TRAINING)	3
Internship at WBPDC (TRAINING)	3
Internship at IIT, PATNA (INTERNSHIP)	4
Internship at IIT, KHARAGPUR	3
Internship at RIFLE FACTORY, ICHAPUR	17
Internship at WLDM	5
Internship at SNTI, JAMSHEDPUR	1
Internship at CESC	12
THE SMART BRIDGE EDU. PVT. LTD	5
Internship at IOCL	26
Internship at DVC, KODERMA	2
Internship at Eastern Railways	4
Internship at ISM, DHANBAD	2
Internship at KHARAGPUR RAILWAY WORKSHOP	4
Internship at NHPC	1
Internship at WBSEDCL	20
Internship at SIEMENS	5
Internship at TILJALA HYDEL POWER STATION	1
Internship at MTPP	3
Internship at CENTER FOR RAILWAY INF.	2
Internship at PWD, WEST BENGAL	1

Internship at GRSE, KOLKATA	2
Internship at BOKARO STEEL PLANT	3
Internship at PGCIL, PATNA	22
Internship at SALUJA STEEL & POWER	1
Internship at NEEPCO, AGARTALA	2
Internship at SAIL	8
Internship at ECL, SANCTORIA	1
Internship at ISI, KOLKATA	2
Internship at IISc, Bangalore	1
Internship at WEBEL	1
Internship at NSCBI AIRPORT	3
Internship at CRSE	2
Internship at KOLAGHAT THERMAL (WBPDC)	17
Internship at BSNL	8
Internship at GUNSHELL FACTORY, COSSIPUR	1
Internship at IIT, KHARAGPUR	1
Internship at TCS	2
Internship at DOORDARSHAN	5
Internship at PHILIPS LTD	1
Internship at NELIT	2
Internship at WBSETCL, SALT LAKE	21
Internship at TRALLEBORG, BANGALORE	1
Internship at MECON LIMITED, RANCHI	1
Internship at THARMAL POWER STATION	1
Internship at ERTL	8
Internship at TCG DIGITALS	2
Internship at GLOBSYN 3RD LIFE	2
Internship at DPL, DURGAPUR	1
Internship at AIRPORT AUTHORITY OF (I)	44

Internship at CTS	2
Internship at AIR INDIA	2
Internship at NTPC	6
Internship at METRO RAILWAY	9
Internship at Ishapore metal & Steel Factory	1
Internship at ELOGIX PVT. LTD, NEWTOWN	1
Internship at FOX SOLUTIONS LTD, NASIK	1
Internship at Amazon	1
Internship at POWER GRID CORP.	9
Internship at Ernst & Young LLP	1
Internship at CHANDRAPURA THERMAL	3
Internship at ORDINANCE FACTORY,DDM	11
Internship at Dotlinker Technologies Private Limited	2
How To Enhance Customer Experience In A Modern Trade Outlet Summer Internship Project At Dabur India Pvt. Ltd	3
Project Milaap – Health & Hygiene Category Expansion after Covid-19 SIP Project At ITC LTD.	15
Training and Development in the Workplace(Inter personal training, improve work & speed training, general awareness training) SIP Project at Air India	1
Examining The Paradigm Shift In The Newspaper Reading Behaviour During Covid 19 Pandemic SIP Project at Times of India	15

Group	
Organization Structure And Training Sip Project At Exide	1
Online Retailing- Challenges & Opportunities (BODFS Model Of Pantaloons)	2
SIP PROJECTAT DVC On Disciplinary Procedure	3
FINANCIAL ACCOUNTING SYSTEM & Old TAX REGIME V/S NEW TAX REGIME ADVANTAGES AND DISADVANTAGES SIP Project With Aditya Birla Capital	15
WORKING CAPITAL MANAGEMENT OF SAIL At Steel Authority Of India	1
Wheel Loader (2021D) Rebound SIP Project with Gainwell Commosales Private Limited	1
THE PROSPECTS AND CHALLENGES OF WORKING CAPITAL MANAGEMENT IN BUSINESS. SIP Project at ACASIA GLOBAL CONSULTING LLP	2
1.4 – Feedback System	
1.4.1 – Whether structured feedback received from all the stakeholders.	
1) Students	2) Teachers
3) Employers	4) Alumni
5) Parents	
Yes	Yes
1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)	
The feedback collected at various levels viz. Students, Parents, Teachers and Alumni is analyzed by higher level of management and steps are taken to improve the functioning. Feedback of stakeholders is sought	

regularly about infrastructure and learning resources for ensuring their constant satisfaction. Accordingly, continuous review of infrastructure and learning resources is carried out by respective committees and the recommendations are integrated for upgrading, maintaining and utilizing physical, academic and support facilities. Feedback is also taken from faculties, stakeholders and experts regarding industry trends and feedback to identify new demands of industry. Structured feedback is taken from students, alumni, employers and experts from academia, industry and research through course/programme review feedback

A team of faculties takes feedback of internal and external subject experts including feedback of all course faculties of campuses to define/review the course objectives, contents, learning outcomes and assessment tools and put up the recommendations. Feedback is taken from eminent experts to integrate their feedback while defining curriculum/ programme.

Students Feedback: The feedback is taken on every class conducted by faculties through CRP. Apart from this feedback is taken on after the general facilities including canteen, general hygiene, cleanliness, academic infrastructure etc.

Parent Feedback: Feedback is collected from the parents during Parent Teacher Meetings (PTMs) on students' performance or through mail by every department of the college. Suggestions and comments given by the guardians are also considered for future development.

Alumni feedback: The alumni of the college who have moved on to industry or for higher studies additionally give a feedback on how their years in the institution have helped them perform of their places of work/study. The alumni additionally supply constructive tips on helping the students gain extra recognition and improving themselves

Teacher Feedback: The feedback from the students is analyzed and the essential corrective measures recommended to teacher members. The remarks are likewise shared with the departments for any corrective measures.

The institution conducts student feedback process every semester to improve teaching, infrastructure and the entire learning experience for the students during their tenure. The college has instituted an online student's feedback system to obtain feedback on teaching, coursework and various academic activities using IEMCRP. The student's feedback is considered as a valuable source of information to measure their level of satisfaction. One of the missions of the organization is to continuously upgrade knowledge base of our manpower, improve infrastructure and use of latest technology/pedagogical tools and update curriculum through periodic feedback from stake holders to enable students to meet professional requirements and their expectations. The feedback collected from the students and alumni for curriculum and suggestions are placed in BOS meetings. Analysis of all collected feedback done on the employability and value-based education.

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
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B.Tech	CSE	180	210	185
B.Tech	ECE	180	161	153
B.Tech	IT	120	115	109
B.Tech	EE	120	114	106
B.Tech	EEE	60	52	43
B.Tech	ME	60	58	51
MBA		180	177	169
PGDM		90	210	47
BBA		120	122	112
BCA		120	135	124
MSc		20	11	11
M.Tech	CSE	18	9	9
M.Tech	ECE	18	5	5
M.Tech	IT	18	3	3

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
2019-20	3841	393	192	25	7

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), eLearning 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
224	224	370	96	3	9

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

Mentoring System:

i) **OBJECTIVE OF THE MENTORING PROGRAMME:** Identify and clarify students' personal and professional goals. A tri-mentoring system is followed where the students are simultaneously mentored by faculty, alumni and industry personnel. In mentoring process counseling and interaction are done in one to one manner.

Encourage students to face challenges with greater ease and confidence. This system is used to improve teacher student relationship. Not only that the system helps students to choose right career path. Tri-mentoring system develops strategies and action plans that yield results and improve the quality of life of

students in many respects.

Alumni – student interaction encouraged and established.

Industry – student interaction encouraged and established.

To make students motivated and committed until successful completion of the course.

ii) **CONTEXT:** Mentoring is a professional relationship in which an experienced faculty assists another (student) to develop specific skills and knowledge that enhances the less experienced person's professional and personal growth. The mentor provides an empathic ear to students' concerns and offers support in setting their goals helps in practicing time and stress management techniques and in acquiring more efficient study routines. Since the majority of the students is not matured enough to take their own decision in the vast changing scenario of technology and fast life, the mentorship programme of the institute guides and counsel the students in academic, non-academic matters including personal domain to achieve their best in life. In particular, the scheme aims at addressing deficiencies in attitudes, habits and knowledge of the students regarding study and learning.

iii) **TRI-MENTORING:** In this process of Tri-mentoring three mentors are assigned to every student. Where one mentor is a faculty of the institute, then another mentor is an alumnus of the institute and last one is corporate personnel. The task of the faculty mentor is to guide and help the students in their academic related problems and to streamline them in career-oriented plans for their development. The task of the alumni member is to help the students as a college senior in all aspects of their life i.e. both academic as well as non-academic issues. The task of the corporate mentor is to guide the students for the knowhow of their placement activities and they also guide students on the current trends of the industry. Each mentor maintains the student's database and reports the same to HOD. Mentors meet with each group regularly to discuss academic and non-academic issues. The issues include students' study habits, study planning and techniques, students' attendance, real life problems, examination preparation, weaker student identification and remedial class's requirement.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
4234(2019-2020)	224	1:18

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
33	33	0	33	7

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
2019	Dr Rahul Baidya	Assistant Professor	IconSWM Excellence Award – 2019 for best Paper in, the 9th International Conference on Sustainable Waste

			Management towards circular economy, Bhubaneswar, India, at KIIT (DU)
2019	Dr Sejuti Khanra (Post-Doctoral Fellow), International	Associate Professor	Joint Indo- Italian project
2019	Prof. Dr. Sujit Dutta, Ph.D.	Professor	Inspiring Climate Educator Award, July 2019 - National Green Mentor Conference
2019	Prof. Indraneel Mukhopadhyay, Ph.D.	Professor	Teaching Excellence Award, September 2019 - Contribution to Teaching and Research
2019	Prof. Indrani Ganguly	Assistant Professor	Best Paper Award - International Conference in English Learning & Teaching Skills (ICELTS)'19
2019	Dr. Indraneel Mukhopadhyay	HOD of IT Dept.	CMI Level 5 Certificate in Management and Leadership by AICTE and UKIERI
2019	Dr. Indraneel Mukhopadhyay	HOD of IT Dept.	Teaching Excellence Awards
2019	Rajib Malik	Associate Professor	Received PhD degree from Jadavpur University
2019	Prof. Samapika Das Biswas	Assistant Professor	Best Internal Reviewer Award -International Conference in English Learning & Teaching Skills (ICELTS)'19
2019	Prof. Mousumi Paul	Assistant Professor	Organizer of the day Award -International Conference in English Learning & Teaching Skills (ICELTS)'19
2019	Prof. Mayurakshi Dev	Assistant Professor	Best event coordinator Award -International Conference in English Learning & Teaching Skills (ICELTS)'19
2019	Prof. Riya Barui	Assistant Professor	Best intellectual contributor Award - International Conference in English Learning &

			Teaching Skills (ICELTS)'19
2019	Prof. Abhishikta Bhattacharyay	Assistant Professor	Best publishing coordinator Award - International Conference in English Learning & Teaching Skills (ICELTS)'19
2019	Prof Prabir Kr Das	Associate Professor	Best conference communicator Award - International Conference in English Learning & Teaching Skills (ICELTS)'19
2019	Prof. Kakoli Dutta	Associate Professor	Best Internal Reviewer Award - International Conference on Chemical and Environmental Sciences (ICCAES - 2019)
2019	Prof.Ruchira Mukherjee	Associate Professor	Organizer of the day Award - International Conference on Chemical and Environmental Sciences (ICCAES - 2019)
2019	Prof. Tina De	Associate Professor	Best event coordinator Award - International Conference on Chemical and Environmental Sciences (ICCAES - 2019)
2019	Prof. Pratap Mukherjee	Associate Professor	Best intellectual contributor Award - International Conference on Chemical and Environmental Sciences (ICCAES - 2019)
2019	Prof. Dibakar Roychoudhury	Assistant Professor	Best publishing coordinator Award - International Conference on Chemical and Environmental Sciences (ICCAES - 2019)
2019	Prof. Shukla Karmakar	Assistant Professor	Best conference communicator Award - International Conference on Chemical and Environmental Sciences (ICCAES - 2019)
2019	Prof Saswati Barman	Associate Professor	Best Internal Reviewer

			Award -International Conference on Current Trends in Material Science & Engineering (CTMSE - 2019)
2019	Prof.Ruchira Mukherjee	Professor	Organizer of the day Award -International Conference on Current Trends in Material Science & Engineering (CTMSE - 2019)
2019	Prof. Tina De	Associate Professor	Best event coordinator Award -International Conference on Current Trends in Material Science & Engineering (CTMSE - 2019)
2019	Prof. Arun Kumar Bar	Professor	Best intellectual contributor Award - International Conference on Current Trends in Material Science & Engineering (CTMSE - 2019)
2019	Prof. Kakoli Dutta	Associate Professor	Best publishing coordinator Award - International Conference on Current Trends in Material Science & Engineering (CTMSE - 2019)
2019	Prof Prabir Kr Das	Associate Professor	Best conference communicator Award - International Conference on Current Trends in Material Science & Engineering (CTMSE - 2019)
2019	Prof. Koyel Ganguly	Professor	Best Internal Reviewer Award -International Conference on condensed Matter Physics (IEMPHYS - 2019)
2019	Prof. Soumyadipta Pal	Assistant Professor	Organizer of the day Award -International Conference on condensed

			Matter Physics (IEMPHYS - 2019)
2019	Prof. Arnab Basu	Assistant Professor	Best event coordinator Award -International Conference on condensed Matter Physics (IEMPHYS - 2019)
2019	Prof. Abhijit Kargupta	Assistant Professor	Best intellectual contributor Award - International Conference on condensed Matter Physics (IEMPHYS - 2019)
2019	Prof. Amit Nandy	Assistant Professor	Best publishing coordinator Award - International Conference on condensed Matter Physics (IEMPHYS - 2019)
2019	Prof. Triparna Datta	Assistant Professor	Best conference communicator Award - International Conference on condensed Matter Physics (IEMPHYS - 2019)
2019	Dr. Debika Bhattacharyya	Professor	Best Internal Reviewer Award -Global AI Congress 2019
2019	Prof. Tufan Saha	Assistant Professor	Organizer of the day Award - Global AI Congress 2019
2019	Dr. Somnath Mukhopaddhyay	Professor	Best event coordinator Award - Global AI Congress 2019
2019	Dr. Jyotsna Kumar Mandal	Professor	Best intellectual contributor Award - Global AI Congress 2019
2019	Prof. Nilanjana Dutta Roy	Associate Professor	Best conference communicator Award - Global AI Congress 2019
2019	Dr. Malay Gangopadhyay	Professor	Smart Society Award - Best conference communicator Award for IEMCON 2019
2019	Prof. Sanghamitra Poddar	Assistant Professor	Smart Society Award - Best event coordinator Award for IEMCON 2019

2019	Prof. Sanghamitra Poddar	Assistant Professor	Smart Society Award - Best conference communicator Award for UEMCON 2019
2019	Dr. Malay Gangopadhyay	Professor	Smart Society Award - Best event coordinator Award for UEMCON 2019
2020	Dr. Arun Kumar Bar	Professor	Smart Society Award - Best conference communicator Award for CCWC 2020
2020	Prof. Nikesh Kumar	Assistant Professor	Smart Society Award - Best event coordinator Award for CCWC 2020
2020	Dr. Mohuya Chakraborty	Professor	Best intellectual contributor Award - eHaCON 2020
2020	Dr. Indraneel Mukhopadhyay	Professor	Best Internal Reviewer Award - eHaCON 2020
2020	Prof. Arup Kumar Chattopadhyay	Assistant Professor	Best event coordinator Award - eHaCON 2020
2020	Dr. Moutushi Singh	Associate Professor	Best conference communicator Award - eHaCON 2020
2020	Prof. Soumen Nandy	Assistant Professor	Best Internal Reviewer Award -International Conference on Mathematical Sciences & Computing (IEMSC - 2020)
2020	Prof. Kamakhya Prasad Ghatak	Professor	Organizer of the day Award -International Conference on Mathematical Sciences & Computing (IEMSC - 2020)
2020	Prof. Biswadip Basu Mallik	Professor	Best event coordinator Award -International Conference on Mathematical Sciences & Computing (IEMSC - 2020)
2020	Prof. Krishanu Deyasi	Assistant Professor	Best intellectual contributor Award - International Conference on Mathematical Sciences & Computing (IEMSC - 2020)

2020	Prof. Santanu Das	Assistant Professor	Best publishing coordinator Award - International Conference on Mathematical Sciences & Computing (IEMSC - 2020)
2020	Prof. Amartya Mukherjee	Assistant Professor	Best conference communicator Award - International Conference on Mathematical Sciences & Computing (IEMSC - 2020)
2020	Dr. Moutushi Singh Biswas	Assistant Professor	Doctorate (Ph.D.)
2020	Priyatosh Mahish	Associate Professor	Received PhD degree from IIT KGP
2020	Gunjan Kumar	Assistant professor	National Student Activity committee member & Zonal Chair- ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers)
2020	Dr Avisek Ray (Post-Doctoral Fellow), International	Assistant Professor	Post-Doctoral Fellowship from IIT Bombay
2020	Rajib Ghosh	Associate Professor	Received PhD degree from Calcutta University
2020	Kaushik Patra	Associate Professor	Received PhD degree from Jadavpur University

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
B.Tech.	ECE, CSE, IT, EE, EEE, ME	Semester	17/01/2020	17/03/2020
M. Tech	ECE, CSE, IT	Semester	16/01/2020	30/03/2020
MBA	MBA	Semester	17/01/2020	30/03/2020
PGDM	PGDM	Semester	17/01/2020	30/03/2020
BCA	COMPUTER APPLICATION	Semester	11/01/2020	18/03/2020
BBA	BBA	Semester	14/01/2020	18/03/2020
MSc	COMPUTER	Semester	16/01/2020	30/03/2020

SCIENCE			
2.5.2 – Reforms initiated on Continuous Internal Evaluation (CIE) system at the institutional level (250 words)			
<p>Assessment strategies –</p> <p>Measurement of the academic progress of the students is done by internal assessment, result analysis, attendance and project through academic units and functionaries.</p> <ul style="list-style-type: none"> • Student’s feedback – The Institution conducts student feedback process every semester to improve Teaching quality, infrastructure and the entire learning experience for the students during their tenure. The college has instituted an online student’s feedback system to obtain feedback on teaching, coursework and various academic activities. The student’s feedback is considered as a valuable source of information to measure their level of satisfaction. • Parent teacher meeting/monitoring – Parents are invited at least once in a semester to discuss the progress of their wards. This is in addition to the regular monitoring of the student’s progress by their mentors. • Mentoring: - The faculty (mentor) regularly interacts with the assigned students to access and monitor the progress of each student and the same is communicated to the parents. • Internal academic audit – Regular academic audit (internal/external) are conducted. The audit reports are reviewed and approved by the management suggested any improvement is required. • Student’s academic evaluation- Each theory class followed workbook assignment as well as Google classroom assignment and IEMCRP online quiz test for performance evaluation. Each laboratory class evaluation is done by experiment handling (online and offline mode) performance, lab assignment, attendance and IEMCRP test. <p>Alumni association strengthens and increased by different programmes.</p>			
2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)			
<p>The University Registration for ensuring newly admitted students process started on June 10, 2019. Admission activities (for ensuing new students) completed on July 31, 2019. Commencement of Academic Programme occurred at August 1, 2019. Registration activities completed by September 10, 2019. First Test Slot was scheduled from September 14-20, 2019. Second Test Slot was scheduled from November 10-14, 2019. Practical Examinations Viva-Voce November was scheduled to be from Nov 22-30, 2019. Theory Examinations took place from December 04-21, 2019. Inter Semester Break is scheduled from December 24, 2019 to January 15, 2020. Publication of Result will be announced in the University website in February 2020. Even semester academic programme started on January 16, 2020. First mid semester examination from March 16 to 20, 2020. Second mid semester examination from April 20- 24, 2020. Workbook and lesson plan audit is from March 02-06, 2020. Continuous evaluation marks submission is done in four phases. First (CA1) from Feb 02-15, Second (CA2) from March 01-05, Third (CA3) March 30-April 04 and Fourth (CA4) April 27-30, 2020. Due to pandemic situation the affiliating university exam (MAKAUT) was not taken in normal time (June, 2020), but based on internal assessment, semester marks was declared on September, 2020. For the autonomous batch students (1st and 2nd Year B.Tech, M.Tech, M.Sc., BCA, BBA and 1st Year MBA) online semester exam was conducted in July, 2020.</p>			
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)			
Department	Program Outcome	Program Specific Outcomes	Course Outcomes
Department of Computer Science &	View Here	View Here	View Here

Engineering			
Department of Information Technology	View Here	View Here	View Here
Department of Electronics & Communication Engineering	View Here	View Here	View Here
Department of Electrical Engineering	View Here	View Here	View Here
Electrical & Electronics Department	View Here	View Here	View Here
Department of Mechanical Engineering	View Here	View Here	View Here

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
UG	BTech	CSE	253	245	96.84
UG	BTech	ECE	225	219	97.33
UG	BTech	IT	139	131	94.24
UG	BTech	ME	70	64	91.43
UG	BTech	EE	131	118	90.08
UG	BTech	EEE	63	60	95.24
PG	MTech	CSE	6	5	83.33
PG	MTech	ECE	7	7	100.00
PG	MTech	IT	2	1	50.00
UG	BBA		106	97	91.51
PG	MBA		163	156	95.71
PG	PGDM		21	21	100
UG	BCA		118	112	94.92
PG	MSC	CSE	1	1	100.00

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://iemgroup.s3.amazonaws.com/uploads/2020/12/SSS_Analysis_19-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	5 Years	DST	Rs. 47 Lakhs	Rs. 9 Lakhs
	3 Years	ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE)	Rs.16,00,000/- (Sixteen Lakhs)	Rs.15,76,000/-
	5 Years	DBT Govt. of India	Rs. 10 Lakhs	Rs. 10 Lakhs
Minor Projects	1 year	IEEE CAS	Rs. 60,000	Rs. 60,000
Projects sponsored by the University	3 Years	IEM	Rs. 40,000	Rs. 40,000
	2 year	IEM, KOLKATA	Rs. 1,50,000	Rs. 1,50,000
Students Research Projects (Other than compulsory by the University)	3 Years	DST IEM	Rs. 40,000	Rs. 12,000
	1 year	IEM, KOLKATA	Rs. 14,000	Rs. 14,000
	1 year	IEM, KOLKATA	Rs. 11,000	Rs. 11,000
Major Projects	3 Years	DST SERB	Rs. 2.8 Lakhs	Rs. 1.4 Lakhs
Any Other (Specify)	6 Months	ISHRAE	Rs. 50,000	Rs. 50,000
Any Other (Specify)	6 Months	ISHRAE	Rs. 50,000	Rs. 50,000
Solar Project	1 year	SLIEM Ltd.	Rs.15.00 lakhs	Rs.5.00 lakhs
IEMCRP	1 year	Dr. SCMC	Rs.3.50 lakhs	Rs.1.00 lakhs
Students Project	1 year	Alumni Association	Rs.70.00 lakhs	Rs.5.00 lakhs

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
Information Diffusion and Propagation Models in association with Zero \$ security	Department of Basic Sciences and Humanities	4 th April, 2019
Anti-Hacking in collaboration with Zero \$ Security	Department of Basic Sciences and Humanities	4 th July, 2019
Quantum Computing in association with Hackciux	Department of Basic Sciences and Humanities	16 th July, 2019
Seminar on renewable energy and its global trends	Electrical and Electronics Engineering	23 rd July, 2019
IBM Open POWER & AI Workshop	Electronics and Communication Engineering	3 rd August, 2019
Seminar on preparation for competitive exams	Electrical and Electronics Engineering	6 th August, 2019
Workshop on Machine Learning	BCA	8 th August, 2019

Workshop on IoT	BCA	9 th August, 2019
Workshop on Blockchain	BCA	13 th August, 2019
Workshop on Data Analytics	BCA	28 th August, 2019
A workshop on Group Discussion by Young Indians in association with British Council.	BCA	28 th August, 2019
Workshop on Competitive Coding	BCA	29 th August, 2019
Workshop on Cyber Security and Ethical Hacking	Electronics and Communication Engineering	29 th - 31 st August, 2019
IISF Face-to-Face with Innovation, in collaboration with DST	Electronics and Communication Engineering	5 th September, 2019
Recent Advances in Energy Management and Renewable Energy (IEM Renewable Energy - 2019)	Electrical Engineering	14 th - 15 th September, 2019
Smart Maker Festival workshops	Electronics and Communication Engineering	17 th September, 2019
Entrepreneurship Development Programme	Electrical Engineering	19 th -20 th September, 2019
Smart Maker Workshop - USA, Canada, India	Electronics and Communication Engineering	10 th October, 2019
IEMENTECH 2019	Electronics and Communication Engineering	17 th -19 th October, 2019
One day seminar on 'VLSI Circuit' by Santanu Paul, Sankalp Semiconductor	Electronics and Communication Engineering	19 th November 2019
Innovative Modeling in Software Engineering in association with Hackciux	Department of Basic Sciences and Humanities	24 th November, 2019
Basic concepts of IoT in collaboration with DISTRONIX	Department of Basic Sciences and Humanities	15 th December, 2019
Workshop on Hacking in IOT	BCA	4 th January, 2020
Workshop on Group Discussion in association with British Council and YI	BCA	21 st January, 2020
Industry Visit RTS Power Corporation in association with YI	BCA	22 nd January, 2020
Workshop on Python	BCA	31 st January, 2020
Workshop on Robotics	BCA	7 th February, 2020
One day seminar on "Design of Efficient Antenna Feed" by Prof. Brateen Ghosh, IIT KGP	Electronics and Communication Engineering	7 th February, 2020

Python workshop	BCA	15 th February, 2020
Microsoft Student Partner“ A starter session”	Department of Basic Sciences and Humanities	15 th February, 2020
Seminar on Recent trends in finance & Role of Insurance in association with CII	BCA	27 th February, 2020
One day seminar on 'Nano Structured Multifunctional Material' by S. K. Bandyopadhyay, VECC	Electronics and Communication Engineering	6 th March ,2020
WELD – 2020 - Realigning the Welding Education to Meet the challenges of Industry 4.0	Department of Mechanical Engineering	7 th March, 2020
Pedagogy of electrical and electrical & electronics engineering— prevailing problems and prospective solutions	Electrical Engineering	24 th -26 th March, 2020
How to overcome the present situation in light of combating the effects of CORONA virus in financial market	BBA (H)	3 rd April, 2020
“India’s sanitization programme during Corona Pandemic” in association with AVP(R & D) Banka BioLoo Ltd.	Department of Basic Sciences and Humanities	28th April,2020
The New Normal: Effective Interview Techniques post Covid-19 world (Session I)	MBA	10th May,2020
Research design and codes of practice for maximizing the impact of energy and climate social science	Department of Mechanical Engineering	14th May, 2020
The New Normal in FMCG: Leadership in Crisis & Exploring New Employment Opportunities (Session II)	MBA	16th May 2020
Smart home technologies in Europe: A Critical Review of Concepts, Benefits, Risks and Policies	Department of Mechanical Engineering	20 th May, 2020

Fluid Structure Interactions from convertible Car Roofs to Hydrofoils	Department of Mechanical Engineering	21 st May, 2020
Conditions Monitoring of Machinery	Department of Mechanical Engineering	28 th May, 2020
Energy Storage and Efficiency the theory of the ragon Representation	Department of Mechanical Engineering	30 th May, 2020
Conditions Monitoring of machinery -II	Department of Mechanical Engineering	4 th June, 2020
One day Seminar on ' Physically Unclonable Function --- A Promising Hardware Security Primitive' by Rajat Subhra Chakraborty, IIT Kharagpur	Electronics and Communication Engineering	13 th June, 2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Smart Mirror	Sakhya deep Bhattacharyya	Explora 2020--- Maulana Abul Kalam Azad University, Conclave 2019	28 th February, 2020	Student
Design of Low-Cost Multi-Control Objective Rescue Mechanical Ventilation System (Linshomator)	Samarpan Deb Majumder, Sagnik Dutta, Simran Saha, Aritra Roy, Arvil Sen, Pushpak Singh, Mayukh Ray	Techno India Group	11 th June, 2020	Student
Effect of Chitosan Edible Coating Enriched with Peel Extracts from Citrus Limon and Leaf Extracts from OcimumTenuiflorum on Bananas	Samarpan Deb Majumder,	Borealis Student Innovation Award	14 th May, 2020	Student
TIMES ICON	Prof P.K. Banerji	TIMES GROUP	24th July, 2019	Leading Educationist
Effect of Chitosan Edible Coating	Samarpan Deb Majumder,	ISHRAE	21 st November, 2019	Student

Enriched with Peel Extracts from Citrus Limon and Leaf Extracts from OcimumTenuiflorum on Bananas	Sagnik Dutta			
Design & Fabrication of Concentrated Solar-Geothermal Wastewater Treatment Apparatus	Samarpan Deb Majumder, Ramesh Kumar Karthick, Swetleena Guha	Indian Institute of Management (IIM), Calcutta	21 st November, 2019	Student
Design & Fabrication of Concentrated Solar-Geothermal Wastewater Treatment Apparatus	Samarpan Deb Majumder, Simran Saha, Sougata Ghosh	Carbon Footprint Challenge, Zurich, Switzerland	7 th September, 2019	Student
HVAC System Design of a School Building for better Indoor Air Quality	Ramesh Kumar Karthick, Sahil Sonkar, Akshay Kumar, Vedula Aditya	ISHRAE	28 th February, 2020	Student
Energy Efficient HVAC System design for a Hospital Building	Ramesh Kumar Karthick, Sahil Sonkar, Akshay Kumar, Vedula Aditya	ISHRAE Kolkata Chapter	7 th December, 2019	Student
Energy Efficient HVAC System design for a Hospital Building	Harsh K.Shah, Kumar Shailendra Panda, Nikunj Verma, Siddharth Ghosh	ISHRAE Kolkata Chapter	7 th December, 2019	Student
FRUCTORIPPE: A small scale ethylene based Fruit ripening chamber for Farmers and Retailers/Consumers	Harsh K Shah, Kumar Shailendra Panda, Gautam Anand	Dept. of Science & Technology and Biotechnology, Govt. of West Bengal & Maulana Abul Kalam Azad University of Technology	23-24 th December, 2019	Student
Study of Thermoelectric Cooler for Fabrication of Portable Storage	Akshay Kumar, Biswayan Chattopadhyay	ISHRAE	21 st November, 2019	Student

unit to ensure optimum storage conditions for Drug Transportation				
Covid-19 MHRD Mega Online Challenge (Round 1)	Shivam Shaw, Kunal Saha, Arkapravo Dutta, Anahata Ghosh	MHRD innovation cell	25 th April, 2020	Student
Synchrophasor data based control of power systems	Priyatosh Mahish	ERLDC	28 th February, 2020	Student
A state predictive approach to mitigate communication latency and data loss for wide area control of power system	Priyatosh Mahish	IEEE Power Energy Society General Meeting	20 th August, 2019	Student
Racon (Regional Level)	V.Aditya	ISHRAE-students' Chapter	7 th December, 2019	Institute
NSDC (National Level)	V.Aditya	ISHRAE- students' Chapter	5 th January, 2020	Institute
Taapmaan(Annual Flagship Event)	Sweta leena Guha, Maitryee Banerjee, Anahata Ghosh	ISHRAE- students' Chapter	21-23 rd August, 2019	Institute
CIRCUITRIX	Arvil Sen, Sayantan Pal	IEI-IEM Students' Chapter	28 th and 29 th February, 2020	Institute
TECHNOVATION	Arvil Sen, Samarpan Deb Majumder, Pushpak Kumar Singh, Noyonika Mukherjee	IEI-IEM Students' Chapter	28 th and 29 th February, 2020	Institute
POSTERNOVA	Sayantan Chanda, Shalini Mondal, Maitreyee Banerjee	IEI-IEM Students' Chapter	28 th and 29 th February, 2020	Institute
Green House Gas Mitigation and Safety Control in College Building	Mr. Raubins Kumar	Fire and Security Association of India	27 th February, 2020	Student
NPTTEL-SPOC	Ratna Chakrabarty	IEM, KOLKATA	20 th August, 2019	Teacher

	(Faculty)			
Smart car parking system	Souparno Chattopadhyay	Diversio 2019	24 th September, 2019	Institute
Volunteer Blood Donor	Dewashish Sarkar	Indian Red cross Society	22 nd March, 2020	Student
Trusted AQI: Industrial Emissions Monitoring	Sandipan Chakraborty, Suvrojit Kumar Saha, Shouvik Mukherjee (Team Trusted AQI)	Cisco thingQbator Bhubaneswar	19th February, 2020	Student
Top 10 cybersecurity service providers	Harshit Anand	CIO India	28 th April ,2019	Student
Anti-Raping Gloves	Mainak Mondal	Confederation of Indian Industry	16 th March, 2020	Student
Autonomous Emergency Parking During Road Blocks Using Li-Fi	Rohan Basak	Larsen & Toubro Technology Services (TECHGIUM-2020)	18 th February, 2020	Student
Enhancing Massive Open Online Courses with Brain Computing Interface and Artificial Intelligence	Saptarshi Neogi	IEM	20 th November, 2019	Student
IOT Based Drone Operated Monitoring Of Distribution Transformers and Terminating Illegal Power Connections	Rohan Basak	CESC, Kolkata (Knowledge Carnival -2019)	18 th March, 2020	Student
Algorithm for the practical Correlation of affected person from the Practical Data	Subham Kundu ,Saurajit Basu, Ankita De , Sayanti Dutta	Motwani Jadeja Foundation	12 th May, 2020	Student
Fight COVID-19	Subham Kundu, Saurajit Basu, Saikat	IEEE	20 th April, 2020	Student

	Choudhury ,Sarbari Choudhury , Ankita De			
Springer 2nd Best Paper Award 2019 (Development of a BCI based application using EEG to assess attentional control)	Prof. Nilanjana Dutta Roy	Springer, Germany	14 th September, 2019	Teacher
ICELTS second best project award	Soham Ghosh	ICELTS 2019	28 th November, 2019	Institute
ICELTS - session winner	Anusriti Choudhuri	ICELTS 2019	28 th November, 2019	Student
Award for Outstanding Achievement	Abhisikta Chakraborty	Global AI Congress 2019 -	14 th September, 2019	Student
NAVEEN SOCH AWAD	Prof Bikash Mandal	Sanmarg.in Business Awards 2020	18th Novemb er, 2020	Business Awards 2020
Elevator Pitch: Covid 19	Miss C. Lisa	ASME Global EFest, North-South America Region	26 th March, 2020	International
International Asme Efest Oral Competition	Mr. Samarpan Deb Majumder	ASME Global EFest, North-South America Region	26 th March, 2020	International
Training Conference	Mr. Vishal Kumar	ASME Student Leader Training Conference	31st October to 1st Novembar,2020	International
Iconswm 2019 Excellency Paper Award	Dr. Rahul Baidya	ICONSWM-CE-2019	30th November, 2019	International
Best Student Chapter Award	Professor Gunjan Kumar, Ramesh Kartik	ISHRAE	14th April,2020	National
Best ISHRAE Model Chapter Award	Professor Gunjan Kumar	ISHRAE	24th July,2020	National
REFCOLD- Global Poster Competition	Samarpan Deb Majumder, Sagnik Dutta, Akshay Kumar, Biswayan Chattopadhyay	ISHRAE	21st Nov,2019	International
RACON- Building HVAC Design Competition	Ramesh Kumar Karthick, Sahil Sonkar, Akshay Kumar, V.Aditya	ISHRAE Kolkata	7th Dec,2019	National
RACON- Building HVAC Design Competition	Harsh K.Shah, Kumar Shailendra Panda, Nikunj Verma, Siddharth Ghosh	ISHRAE Kolkata	7th Dec,2019	National

Aquest Quarter Finals South East Zone	Ramesh Kumar Karthick, Sagar Suman	ISHRAE	21st Dec,2019	National
Aquest Quarter Finals South East Zone	Sagnik Dutta, Biswayan Chattopadhyay	ISHRAE	21st Dec,2019	National
Aquest Quarter Finals South East Zone	Harsh K.Shah, Agnitra Das	ISHRAE	21st Dec,2019	National
Aquest Semi Finals South East Zone	Ramesh Kumar Karthick, Sagar Suman	ISHRAE	22nd Dec,2019	National
Aquest Semi Finals South East Zone	Sagnik Dutta, Biswayan Chattopadhyay	ISHRAE	22nd Dec,2019	National
Aquest Semi Finals South East Zone	Harsh K.Shah, Agnitra Das	ISHRAE	22nd Dec,2019	National
National Student Design Competition(NSDC)	Ramesh Kumar Karthick, Sahil Sonkar, Akshay Kumar, V.Aditya	ISHRAE	5th Jan,2020	National
Aquest Finals (Noida)	Ramesh Kumar Karthick, Sagar Suman	ISHRAE	28th Feb,2020	National
Aquest Finals (Noida)	Sagnik Dutta, Biswayan Chattopadhyay	ISHRAE	28th Feb,2020	National
Facebook All Star Quiz	Ramesh Kumar Karthick	ISHRAE	28th Feb,2020	National
Quiz Quarantino	Rahul Dhanuka	ISHRAE Kolkata	1st May,2020	Regional
Quiz Quarantino	Swetaleena Guha	ISHRAE Kolkata	1st May,2020	Regional
Quiz Quarantino	Biswayan Chattopadhyay	ISHRAE Kolkata	1st May,2020	Regional
Photography Competition	Aditya Ranjan	ISHRAE Kolkata	4th May,2020	Regional
AICTE CHATTRA VISWAKARMA AWARDS 2019	Harsh K Shah, Kumar Shailendra Panda,Gautam Anand, Nitin Ujjwal	AICTE & ISTE	24th February,2020	National
4TH REGIONAL SCIENCE AND TECHNOLOGY CONGRESS 2019	Harsh K Shah, Kumar Shailendra Panda,Gautam Anand	Dept. Of Science & Technology And Biotechnology, Govt. Of West Bengal & MAKAUT	27th December,2019	NATIONAL
IEMPOWER CONFERENCE	Prof. Gunjan Kumar, V. Aditya, Bidisha Bhattacharya	Institute of Engineering & Management	22nd November,2019	Best Paper Award at International Conference
3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year				
Incubation Center	Name	Sponsored By		
Godrej Genesis Building, IEM	IEDC(Innovation and	Government of India, DST		

Research & Development Centre	Entrepreneurship Development Centre)	
Godrej Genesis Building, IEM Research & Development Centre	NOMAD VOYAGERS (STARTUP VENTURE)	WADHWANI FOUNDATION (STARTUP PROJECT)
Name of the Start-up	Nature of Start- up	Date of Commencement
Cybersity	We deal with IoT based smart devices which converts existing non smart technologies to smarter ones.	2nd January 2019
WEALTHY WASTE PVT LTD	Selling eco-friendly products and solutions on waste management and sustainable development.	3rd March 2019
Applex.in	App Development	2nd August 2019
Pubba	Ecommerce platform for selling designs printed on any media	5th may 2019
Techax Labs	AI, AR-VR, App development, Web development, Graphic designing, Web hosting and digital marketing	1st September 2019
DIY Baazar	E-commerce platform for Artisans and handicrafts or handmade product manufacturers so that they can sell through us all over India sitting at their home. We provide marketing sales delivery support everything.	13th November 2019
Cybertix Technologies llp (Zero Dollar Security and Cross Validate)	Provides services in cyber security and machine learning domains, provides customised business products, provides internships, conducts workshops and trainings	15 th November, 2019
MEDGINN	Booking App of Doctor's Appointment	20th March 2020
TUTOR ONLINE	App, for benefit of both	20th March 2020.

	student and parent with the moderate charge.	
Roll World	Carry on the business of rolls and other fast food items.	20th March 2020
THE PANCHDUT	Carry on the business of blogging where one can find any queries related to any topic (Exams, News etc).	20th March 2020
AQUAFRESH	Carry on the business of supply of processed and purified drinking water to be supplied in bottle and jars	20th March 2020
TECHYDOODLE	Electronic Data Processing and Database Management.	20th March 2020
GEN-Z	Eco-based products serving as replacements of products harmful for environment which will cut down pollution	20th March 2020
FUTURE WHEELS	Business of providing consultancy for setting up electric car charging station.	20th March 2020
LIB IN A CLICK	Carry on the business of renting books at a nominal rental charge.	20th March 2020
STYLEITOUT.	Agreed to carry on the business of providing high end apparels on rental basis.	20th March 2020
FOODIE GOODIE.	Agreed to carry on the business of online homemade food.	20th March 2020
PAANIWALA.COM	Business of selling drinking water online with the help of an App.	20th March 2020
TALENT SEARCH	Talent search for organizing various events, competition through App	20th March 2020
ONLINE TUTORIAL DIARY	Providing online tutorial	20th March 2020

	classes and career path finder	
SAFAR KA SATHI	Car services which will be supported by App	20th March 2020
CAR TECH	Providing online car and Bike services by App.	20th March 2020
JUDICIAL POINT	Providing legal assistance and Client Management System	20th March 2020
SERVICEMATE	Providing painter, electrician ,cable operator, plumber through App.	20th March 2020
READY SOLVE	Providing service of equipments through App.	20th March 2020
WEWATCH	Providing service of webcasting through an App	20th March 2020
CYBERSITY	Carry on technology driven business	20th March 2020
CLEAN TECH	Carry on Recycling of E-waste business	20th March 2020
CAREAZY	Online Carpool service through an App.	20th March 2020
SPARKZAPP	Carry on technology driven business	20th March 2020
SMART BIN	Carry on business of Electronic Bin	20th March 2020
HELPING HAND	Carry on the Business of electronic database required for education, placement	20th March 2020
SENTRIQO	Carry on technology driven business	20th March 2020
DIGIPRINT	Digital printing through App.	20th March 2020
ARRAY	Online booking of Doctor's appointment through an App	20th March 2020
YOUTOPIA	Business of Software development	20th March 2020
MED-AID	Appointment of Doctors & supply medicines	20th March 2020

	through an App.	
BUILDERZ	Supply of Building materials through App.	20th March 2020
BAY (BOOK AND ACADEMICS).	Business of Books & Academic equipments through an App	20th March 2020
BLOSSOMS	Online gift, greetings services through an App	20th March 2020
ACADMART	Study materials and equipments provider through an App	20th March 2020
EDUCATOR	Online education service provide through an App	20th March 2020
TECHPACK	Technology & marketing solutions through an App	20th March 2020
ONLINE KNOWLEDGE	Providing online tutorial classes and career path finder	20th March 2020
FUN PLUS	Carry on the business of games through an App	20th March 2020
NEED FOR FREAKS	Business of Computer and other related equipment through an App	20th March 2020
M/s. SWIFT OUTLOOK	Business of designing and developing blue prints of houses	20th March 2020
Muffle & Truffle	Customized Goods	12 th March 2020
Shopper's Square	E-commerce	20 th July 2020
Unico Creacion- be unique and classy	Customized Goods (face Masks)	23 rd June 2020
M/s. FRESH BASKET	Carry on the business of selling Vegetables through an App	20th March 2020
M/s. PRS DIGITAL PRINTERS	Carry on the business of establishing Digital Printing	20th March 2020
M/s. NATURAFRESH	Carry on the business of Water Purification	20th March 2020
M/s. CLEAN TECH	Carry on Recycling of E-waste business	20th March 2020
M/s. PLANT ARCADIA	Providing necessary gardening tools, equipments and selling	20th March 2020

	Plants	
M/s. BUILDERZ	Carry on the business of supply of building materials through App	20th March 2020
M/s. ECO LIFE	Carry on the business of producing bio-degradable Environment friendly bags	20th March 2020
M/s. POOLTECH	Carry on the business of Car rental services through an app	20th March 2020
M/s PLAY N LEARN	Carry on the business of conducting online games and examinations through an App	20th March 2020
M/s. DATA-TECH	Carry on technology driven business	20th March 2020
M/s. NEED FOR FREAKS	Carry on the Business of Computer and other related equipment through an App	20th March 2020
M/s WEBER	Carry on the business of developing and designing	20th March 2020
M/s. MEMOIRS	Carry on the business as Event Manager	20th March 2020
M/s. COMPTECH HARDWARE	Carry on the business of developing computer hardware	20th March 2020
M/s. EDUPHYLUM	Carry on the business of online Carpool service through an App	20th March 2020
M/s. TECHCHIRPS	Carry on the business of developing Applications and tools through an App	20th March 2020
M/s. TEACHER ON LINE	carry on the business of teaching service through an App	20th March 2020
M/s RAD AUTOMOBILES	Carry on the business as retailers of automobile	20th March 2020
M/s. ONLINE TUTORIAL	Providing online tutorial classes and career path finder	20th March 2020
M/s. MALLOC	Carry on the business of Web based technical	20th March 2020

	classes through an App	
M/s. INSTA AID	Providing nearest hospitals and nursing homes through an App	20th March 2020
M/s. DOODLE STORE.COM	carry on the business of selling clothes and lifestyles through an App	20th March 2020
M/s. SMILEPAY	Carry on the business of establishing a E-wallet Payment system through an App	20th March 2020
M/s. VINQ INC	Carry on the business of providing tech and marketing solutions to other companies	20th March 2020
M/s. CRYPHIC WIRING	Carry on technology driven business	20th March 2020
M/s. SEWAK	Carry on technology driven business	20th March 2020
M/s. PRINTION	Carry on the business of Printing Designs and Letters on the T-Shirts	20th March 2020
M/s. MEDIVIBES	Booking App of Doctor's Appointment	20th March 2020
M/s. TTM INNOVATIONS	Carry on the business of making arduino controlled innovative toys	20th March 2020
M/s. BOOK KART	carry on the business of selling old books and engineering study equipments through an App	20th March 2020
M/s. GO ONLINE	Carry on the business of Cyber facilitation Centre	20th March 2020
M/s. INFINITY SOLUTIONS	Carry on the business of developing programs	20th March 2020
M/s. YOUTOPIA	Carry on the business of Software development	20th March 2020
M/s. HELPING HAND	Carry on the business of service providing tradesperson ,electricians, plumbers through an App	20th March 2020
M/s DESIGN N PRINT	Carry on the business of	20th March 2020

	Printing Designs and Letters on the T-Shirts	
M/s. MEDI-AID	Booking App of Doctor's Appointment and supply medicines	20th March 2020
M/s. DRAMS E-TRADING	online retail trading	1st February 2020
M/s. SWEET CRAVINGS	Online based service of selling Homemade confectionery items	1st February 2020
M/s. CELEBRATIONS	Event Manager Providing Services which would include arranging of birthday parties with Photography, Weddings, Catering service and other Celebrations and will also create an online platform for further publicity of the business.	1st February 2020
M/s. SUCCESS PLANNER	App based planner which is used to guide the users on plan to work and work to plan for achieving goals	1st February 2020
M/s. BAKED FOR U	selling Homemade confectionery items including cakes, cookies ,chocolates and savouries	1st February 2020
M/s. E-RENTALS	Online Book Renting Services	1st February 2020
M/s JOY HUB	Event Manager which would include arranging of birthday parties, Marriage parties, Conferences and other Celebrations at a minimum cost	1st February 2020
M/s. FURNEEZY	E – Renting of furniture, electronic items including personal effects	1st February 2020
M/s. KRAFTIARY	Handicraft items in various arts and forms.	1st February 2020
M/s HEALTHY HUB	Healthy and hygienic dietary foods for the health conscious people who gets less time to	1st February 2020

	maintain their health and diet.	
M/s CRAFTERIA	Handicraft Items which will include handmade posters, magnets, glass paintings, show pieces and other novelty items	1st February 2020
M/s. DOOR KNOCKERS	establishing food delivery system in and around Kolkata	1st February 2020
M/s. STREET HARVEST	Establishing a Food Hub in Kolkata.	1st February 2020
M/s FUNZEE	App based service portal where consumers can convey Wishes to the loved ones with remembering Gifts/Memento.	1st February 2020
M/s. NOMAD VOYAGERS	Online Motel service through an app especially for bikers for providing comfortable stay, food service and even renting required Bike accessories and service	1st February 2020
M/s. GREEN WORLD	Selling of Groceries under App Based Platform	1st February 2020
M/s. CHOCO-G	Distributing confectionary items including hand made chocolates and cookies in different areas.	1st February 2020
Broadbill Professional Services Pvt Ltd	App , Web development, digital marketing	20th March 2019
The Designer Dev	A design centric merchandise brand and service.	15th May 2020
Future Gurukuls edutech. pvt. ltd.	IOT, Robotics, making smart schools	5th February 2020
RocketriX	To Provide launch services especially for growing Small Satellite market	24th July 2020
THINK FOR INDIA	WEB DEVELOPMENT	5th September 2020
BUTTERFLY IO	SUSTAINABLE LIFE BY	14th July, 2020

	PRODUCING VARIOUS IOT CONNECTED SMART PRODUCTS, WASTE MANAGEMENT, HYGIENE AND SANITIZATION.	
M/s. Doctor Desktop	Assemble and deliver Computers & other related equipment/accessories etc. through an App and Website.	14th July, 2020
StiQRit	Online digital platform to store short notes and other secure documents	24th June, 2019
Pubba	Develops custom designs for t-shirts, posters, bookmarks and stationary	27th October, 2019
Applex	Provides custom technical solutions for companies in domains like cloud computing, application development, etc	6th March, 2020
Wealthy Waste Pvt. Ltd	Waste Management and Sustainable Development	May, 2019
IoTics.Net	IoT based Services and Products, Workshops	January, 2019
India infinity ventures	Education and R&D	June, 2020
Ready Solve	The parties to have mutually agreed to carry on the technology driven business which also includes providing service of equipment.	January, 2020

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
47	39	12

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

Name of the Department	Number of PhD's Awarded
NA	0

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	BSH	1	0.5
International	BSH	21	2.3
National	ME	3	0.25
International	ME	6	1.402
National	MBA	2	1.03
International	MBA	1	3.36
National	BBA (H)	3	0.12
International	BBA (H)	7	1
International	BCA	6	1.5
International	IT	20	1.75
International	ECE	10	2
International	CSE	5	1.426
International	EE	6	4.82
International	EEE	2	1.25

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
BCA,M.Sc(CS)	36
BBA	1
MBA	2
ECE	52
EEE	6
ME	8
EE	8
IT	11
CSE	2
PGDM	3
BSH	64

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
An ensemble voted feature	Abhishek Bhattacharya	International	2019	0	Institute of	0

selection technique for predictive modeling of malwares of android		Journal of Information System Modeling and Design			Engineering and Management (IEM), Kolkata	
Community detection based tweet summarization	Abhishek Bhattacharya	Advances in Intelligent Systems and Computing	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Cryptanalysis of a chaotic key-based image encryption scheme	Abhishek Bhattacharya	Advances in Intelligent Systems and Computing	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Recent Trends of Data Mining in Cloud Computing	Abhishek Bhattacharya	Emerging Technologies in Data Mining and Information Security	2019	0	Institute of Engineering and Management (IEM), Kolkata	4
Effect of Nanoparticles on Biodiversity of Soil and Water Microorganism Community	Amit Kumar Mandal	Journal of Tissue Science & Engineering	2020	0	Institute of Engineering and Management (IEM), Kolkata	6
Synthesis and Optical Absorption Properties of Copper Oxide Nanoparticles for Applications in Transparent Surface Coatings and Solar Cells	Amit Kumar Mandal	Journal of Nano and Electronic Physics	2020	0	Institute of Engineering and Management (IEM), Kolkata	2
A quasi-	Ankita Mandal	Internatio	2019	0	Institute of	0

visibility graph based clique-extraction heuristic model for partitioning of planar shape		nal Journal of Applied Management Science			Engineering and Management (IEM), Kolkata	
Comparative machinability characterization of wire electrical discharge machining on different specialized AISI steels	Bikash Choudhuri	Bulletin of Materials Science	2020	1.264	Institute of Engineering and Management (IEM), Kolkata	0
Surface integrity study of WEDM with various wire electrodes: experiments and analysis	Bikash Choudhuri	Machining Science and Technology	2020	1.716	Institute of Engineering and Management (IEM), Kolkata	0
An investigation on the effect of different coated electrodes on the surface quality of WEDM by varying discharge energy level	Bikash Choudhuri	The International Journal of Advanced Manufacturing Technology	2020	2.496	Institute of Engineering and Management (IEM), Kolkata	0
Parametric Analysis of WEDM to Optimize Cutting Parameters for Inconel 800	Bikash Choudhuri	Materials Today: Proceedings	2020	24.372	Institute of Engineering and Management (IEM), Kolkata	0
Selection of commercially available alternative	Bikash Choudhuri	Operational Research in	2020	0	Institute of Engineering and Management	3

passenger vehicle in automotive environment		Engineering Sciences: Theory and Applications			t (IEM), Kolkata	
A PSO based investigation of research fields of researchers	Goldina Ghosh	Kybernetes, Emerald	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
A proposed health monitoring system using fuzzy inference system	Goldina Ghosh	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2020	1.317	Institute of Engineering and Management (IEM), Kolkata	0
Parametric Study of MIG Welding on Mild Steel (IS-2062 Grade A)	Dwaipayan De	International Journal of Innovative Research in Physics (IJIP)	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Waiting Time: The expectations and preferences of patients in a Pediatric OPD	Indraneel Mukhopadhyay	Journal of Health Management	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Two Algorithms for Computing All Spanning Trees of a Simple, Undirected, and Connected Graph: Once	Maumita Chakraborty	IEEE Access	2020	4.098	Institute of Engineering and Management (IEM), Kolkata	2

Assuming a Complete Graph						
Customers' attitude towards the retailer disruption with private label brands against the National brands in men's apparel trade environment	Swati Mukherjee	DISRUPTIV E CHANGE & ORGANIZ ATIONAL DEVELOP MENT"	2019	0	Institute of Engineering and Managemen t (IEM), Kolkata	0
Impact of Lean Manufacturing in Business Excellence	Bikas Chandra Mandal	American Journal of Business and Managem ent Research (AJBMR)	2020	0	Institute of Engineering and Managemen t (IEM), Kolkata	0
TECHNOLOGY: AN INTEGRAL PART OF PRESENT DAY BUSINESS STRATEGY	ARUNDHATI RAY	BIMS Journal of Managem ent Conferenc e Issue on New Paradigms in Managem ent in Associatio n with AIMS	2019	0	Institute of Engineering and Managemen t (IEM), Kolkata	0
Intellectual Property Rights and Indian Agriculture :Some Policy Issues	ARUNDHATI RAY	Enterprisi ng Agricultur e Market Awarenes s Farm Innovatio n and Value Addition	2020	0	Institute of Engineering and Managemen t (IEM), Kolkata	0

FLIPPED CLASSROOM HAS LEAD TO FLIPPED BLOOMS TAXONOMY – A CASE STUDY IN TEACHING LANGUAGE	Indrani Ganguly	IJELTS	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Facilitating “transferable skills” among Management students for future placement opportunities: An Empirical study	Sohini Datta	CBS Journal of Management Practices	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
English for Organizational Communication in the context of Globalization: An Empirical Investigation	Sohini Datta	International Research Journal of Humanities and Social Sciences	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
“Effective Leadership is still largely a matter of Communication”: A Study	Sohini Datta	International Journal of English Learning & Teaching Skills	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
Using Disruptive Innovation for Disaster Mitigation and Ensuring Supply Chain Continuity	Shouvik Chattopadhyay	American Journal of Business and Management Research	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
“Green Business Opening and	Sujit Dutta	Zenith International	2020	0	Institute of Engineering and	0

its Significance in the Present Climate Change Scenario - A Study".		Journal of Multidisciplinary Research			Management (IEM), Kolkata	
The Effectiveness and Sensitivity of Stochastic Oscillator and Relative Strength Index in Select Indian Stocks	Arkaprava Chakrabarty	Our Heritage	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
A shortest path problem in a stochastic network with exponential travel time	Bidushi Chakraborty	International Journal of Applied Management Science	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Impact of Gender on the Determinants of Purchase Intention of College Students toward Fashion Apparels	Dibyendu Chattaraj	MERC Global's International Journal of Management	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Unique Impact of Demographic Factors on the Determinants of Purchase Intention toward Fashion Apparels among College Students. Promotional Strategy for Sustainability of Community	Joydeep Mukherjee	International Journal of Technology for Business (IJTB)	2019	0	Institute of Engineering and Management (IEM), Kolkata	0

Based Tourism (CBT)						
Effects of Demonetization, Clinical Establishment Act, and Media News on Medical Tourism: An Exploratory Study in West Bengal	Rabin Mazumder	The Impacts of Monetary Policy in the 21st Century: Perspectives from Emerging Economies	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Impact of demonetization on the economic parameters that affect the growth of nonperforming asset of Indian banks	Rabin Mazumder	GIS Business	2020	4	Institute of Engineering and Management (IEM), Kolkata	0
Effect of social media influencers on purchase intention in shopping of electronic goods	Rabin Mazumder	International Journal of Psychosocial Rehabilitation	2020	7	Institute of Engineering and Management (IEM), Kolkata	0
A Study on the relationship between customer loyalty and customer trust in online shopping	Rabin Mazumder	<i>International Journal of Online Marketing</i>	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
Antecedents and consequences of organizational commitment in school education sector	Rabin Mazumder	<i>International Journal of Organizational Analysis</i>	2020	22	Institute of Engineering and Management (IEM), Kolkata	0

Impact of Psychological Contract Violation on Information Technology-Based Educational Institutions of Kolkata and Suburbs	Saikat Chakrabarti	International Journal of Recent Technology and Engineering	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Psychological Contract: Its Influence on Attrition in Manufacturing Sector	Saikat Chakrabarti	International Journal of Innovative Technology and Exploring Engineering	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
Techno-economic optimization of a small scale distributed polygeneration with local resources for a remote place of India	Avishek Ray	International Journal of Ambient Energy (Taylor and Francis)	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Polygeneration using renewable resources: Cost optimization using linear programming	Avishek Ray	Process Integration and Optimization for Sustainability (Springer)	2019	0	Institute of Engineering and Management (IEM), Kolkata	2
Generalized stochastic Petri nets for uncertain renewable-based hybrid generation and load in a microgrid system	Debashis Jana	International Transactions on Electrical Energy Systems	2020	1.314	Institute of Engineering and Management (IEM), Kolkata	0
Mitigating	Priyatosh Mahish	IEEE	2019	4.415	Institute of	6

subsynchronous resonance using synchrophasor data based control of wind farms		Transactions on Power Delivery			Engineering and Management (IEM), Kolkata	
Distributed synchronized control in grid integrated wind farms to improve primary frequency regulation	Priyatosh Mahish	IEEE Transactions on Power Delivery	2019	4.415	Institute of Engineering and Management (IEM), Kolkata	2
A State Predictive Approach to Mitigate Communication Latency and Data Loss for Wide Area Control of Power System	Priyatosh Mahish	IEEE Power & Energy Society General Meeting (IEEE)	2019	0	Institute of Engineering and Management (IEM), Kolkata	0
Blast furnace flue dust co-processing in cement kiln – A pilot study	Rahul Baidya	Waste Management & Research	2019	2.015	Institute of Engineering and Management (IEM), Kolkata	2
Low carbon cement manufacturing in India by co-processing of alternative fuel and raw materials	Rahul Baidya	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2019	0.0894	Institute of Engineering and Management (IEM), Kolkata	4
Supply chain analysis of e-waste processing plants in developing countries	Rahul Baidya	Waste Management & Research	2020	2.015	Institute of Engineering and Management (IEM), Kolkata	4

Co-processing of industrial trade rejects in cement plant	Rahul Baidya	Waste Management & Research	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
RoadSpeedSense: Context-Aware Speed Profiling from Smart-phone Sensors	Ratna Mandal	EAI Endorsed Transactions on Energy Web	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
A Complete Routing Simulator for Digital Microfluidic Biochip	Rupam Bhattacharya	International Journal of Information System Modeling and Design (IJSMD) in 2019	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
Analytical Investigation of Nanoparticle as a Drug Carrier Suspended in a MHD Blood Flowing Through an Irregular Shape Stenosed Artery	Satyasaran Changdar	Iranian Journal of Science and Technology, Transactions A: Science	2020	0.800	Institute of Engineering and Management (IEM), Kolkata	3
Deep Learning-Based Automated Feature Engineering for Rice Leaf Disease Prediction	Soumi Dutta	Computational Intelligence in Pattern Recognition	2020	0	Institute of Engineering and Management (IEM), Kolkata	0
In-Detail Analysis on Custom	Subhabrata Sengupta	Education and Informatio	2020	0	Institute of Engineering and	0

Teaching and Learning Framework		n Technologies			Management (IEM), Kolkata	
On Outage Analysis in SWIPT Enabled Bidirectional D2D Communications using Spectrum Sharing in Cellular Networks	Sutanu Ghosh	IEEE Transactions on Vehicular Tech.	2020	5.339	Institute of Engineering and Management (IEM), Kolkata	2
A compact circularly polarized isosceles triangular microstrip patch antenna with parasitic elements for multiband application	Malay Gangopadhyay	Microwave and Optical Technology Letters	2020	0.933	Institute of Engineering and Management (IEM), Kolkata	0

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
An ensemble voted feature selection technique for predictive modeling of malwares of android	Abhishek Bhattacharya	International Journal of Information System Modeling and Design	2019	3	0	Institute of Engineering and Management (IEM), Kolkata
Community detection based tweet summarization	Abhishek Bhattacharya	Advances in Intelligent Systems and Computing	2019	3	0	Institute of Engineering and Management (IEM), Kolkata
Cryptanalysis of a chaotic key-based image	Abhishek Bhattacharya	Advances in Intelligent Systems	2019	3	0	Institute of Engineering and Management

encryption scheme		and Computing				(IEM), Kolkata
Recent Trends of Data Mining in Cloud Computing	Abhishek Bhattacharya	Emerging Technologies in Data Mining and Information Security	2019	3	4	Institute of Engineering and Management (IEM), Kolkata
Effect of Nanoparticles on Biodiversity of Soil and Water Microorganism Community	Amit Kumar Mandal	Journal of Tissue Science & Engineering	2020	5	6	Institute of Engineering and Management (IEM), Kolkata
Synthesis and Optical Absorption Properties of Copper Oxide Nanoparticles for Applications in Transparent Surface Coatings and Solar Cells	Amit Kumar Mandal	Journal of Nano and Electronic Physics	2020	5	2	Institute of Engineering and Management (IEM), Kolkata
A quasi-visibility graph based clique-extraction heuristic model for partitioning of planar shape	Ankita Mandal	International Journal of Applied Management Science	2019	1	0	Institute of Engineering and Management (IEM), Kolkata
Comparative machinability characterization of wire electrical discharge machining on different specialized AISI steels	Bikash Choudhuri	Bulletin of Materials Science	2020	4	0	Institute of Engineering and Management (IEM), Kolkata
Surface integrity study	Bikash Choudhuri	Machining Science	2020	4	0	Institute of Engineering

of WEDM with various wire electrodes: experiments and analysis		and Technology				and Management (IEM), Kolkata
An investigation on the effect of different coated electrodes on the surface quality of WEDM by varying discharge energy level	Bikash Choudhuri	The International Journal of Advanced Manufacturing Technology	2020	4	0	Institute of Engineering and Management (IEM), Kolkata
Parametric Analysis of WEDM to Optimize Cutting Parameters for Inconel 800	Bikash Choudhuri	Materials Today: Proceedings	2020	4	0	Institute of Engineering and Management (IEM), Kolkata
Selection of commercially available alternative passenger vehicle in automotive environment	Bikash Choudhuri	Operational Research in Engineering Sciences: Theory and Applications	2020	4	3	Institute of Engineering and Management (IEM), Kolkata
A PSO based investigation of research fields of researchers	Goldina Ghosh	Kybernetes, Emerald	2019	2	0	Institute of Engineering and Management (IEM), Kolkata
A proposed health monitoring system using fuzzy inference system	Goldina Ghosh	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in	2020	2	0	Institute of Engineering and Management (IEM), Kolkata

		Medicine				
Parametric Study of MIG Welding on Mild Steel (IS-2062 Grade A)	Dwaipayan De	International Journal of Innovative Research in Physics (IJIIP)	2019	2	0	Institute of Engineering and Management (IEM), Kolkata
Waiting Time: The expectations and preferences of patients in a Pediatric OPD	Indraneel Mukhopadhyay	Journal of Health Management	2019	3	0	Institute of Engineering and Management (IEM), Kolkata
Two Algorithms for Computing All Spanning Trees of a Simple, Undirected, and Connected Graph: Once Assuming a Complete Graph	Maumita Chakraborty	IEEE Access	2020	2	2	Institute of Engineering and Management (IEM), Kolkata
Customers' attitude towards the retailer disruption with private label brands against the National brands in men's apparel trade environment	Swati Mukherjee	DISRUPTIVE CHANGE & ORGANIZATIONAL DEVELOPMENT"	2019	1	0	Institute of Engineering and Management (IEM), Kolkata
Impact of Lean Manufacturing in Business Excellence	Bikas Chandra Mandal	American Journal of Business and Management Research (AJBMR)	2020	1	0	Institute of Engineering and Management (IEM), Kolkata

TECHNOLOGY: AN INTEGRAL PART OF PRESENT DAY BUSINESS STRATEGY	ARUNDHATI RAY	BIMS Journal of Managem ent Conferenc e Issue on New Paradigms in Managem ent in Associatio n with AIMS	2019	1	0	Institute of Engineering and Management (IEM), Kolkata
Intellectual Property Rights and Indian Agriculture :Some Policy Issues	ARUNDHATI RAY	Enterprisin g Agriculture Market Awareness Farm Innovation and Value Addition	2020	1	0	Institute of Engineering and Management (IEM), Kolkata
FLIPPED CLASSROOM HAS LEAD TO FLIPPED BLOOMS TAXONOMY – A CASE STUDY IN TEACHING LANGUAGE	Indrani Ganguly	IJELTS	2019	1	0	Institute of Engineering and Management (IEM), Kolkata
Facilitating “transferable skills” among Management students for future placement opportunities: An Empirical study	Sohini Datta	CBS Journal of Managem ent Practices	2019	2	0	Institute of Engineering and Management (IEM), Kolkata
English for Organizational Communicatio n in the context of Globalization:	Sohini Datta	Internation al Research Journal of Humanitie s and	2019	2	0	Institute of Engineering and Management (IEM), Kolkata

An Empirical Investigation		Social Sciences				
“Effective Leadership is still largely a matter of Communication”: A Study	Sohini Datta	International Journal of English Learning & Teaching Skills	2020	2	0	Institute of Engineering and Management (IEM), Kolkata
Using Disruptive Innovation for Disaster Mitigation and Ensuring Supply Chain Continuity	Shouvik Chattopadhyay	American Journal of Business and Management Research	2020	1	0	Institute of Engineering and Management (IEM), Kolkata
“Green Business Opening and its Significance in the Present Climate Change Scenario - A Study”.	Sujit Dutta	Zenith International Journal of Multidisciplinary Research	2020	1	0	Institute of Engineering and Management (IEM), Kolkata
The Effectiveness and Sensitivity of Stochastic Oscillator and Relative Strength Index in Select Indian Stocks	Arkaprava Chakrabarty	Our Heritage	2020	1	0	Institute of Engineering and Management (IEM), Kolkata
A shortest path problem in a stochastic network with exponential travel time	Bidushi Chakraborty	International Journal of Applied Management Science	2019	1	0	Institute of Engineering and Management (IEM), Kolkata
Impact of Gender on the Determinants of Purchase Intention of College Students	Dibyendu Chattaraj	MERC Global’s International Journal of Management	2019	1	0	Institute of Engineering and Management (IEM), Kolkata

toward Fashion Apparels						
Impact of Demographic Factors on the Determinants of Purchase Intention toward Fashion Apparels among College Students.	Dibyendu Chattaraj	History Research Journal	2019	1	0	Institute of Engineering and Management (IEM), Kolkata
Unique Promotional Strategy for Sustainability of Community Based Tourism (CBT)	Joydeep Mukherjee	International Journal of Technology for Business (IJTB)	2019	2	0	Institute of Engineering and Management (IEM), Kolkata
Effects of Demonetization, Clinical Establishment Act, and Media News on Medical Tourism: An Exploratory Study in West Bengal	Rabin Mazumder	The Impacts of Monetary Policy in the 21st Century: Perspectives from Emerging Economies	2019	3	0	Institute of Engineering and Management (IEM), Kolkata
Impact of demonetization on the economic parameters that affect the growth of nonperforming asset of indian banks	Rabin Mazumder	GIS Business	2020	3	0	Institute of Engineering and Management (IEM), Kolkata
Effect of social media influencers on purchase intention in shopping of electronic	Rabin Mazumder	International Journal of Psychosocial Rehabilitation	2020	3	0	Institute of Engineering and Management (IEM), Kolkata

goods						
Techno-economic optimization of a small scale distributed polygeneration with local resources for a remote place of India	Avishek Ray	International Journal of Ambient Energy (Taylor and Francis)	2019	3	0	Institute of Engineering and Management (IEM), Kolkata
Polygeneration using renewable resources: Cost optimization using linear programming	Avishek Ray	Process Integration and Optimization for Sustainability (Springer)	2019	3	0	Institute of Engineering and Management (IEM), Kolkata
Generalized stochastic Petri nets for uncertain renewable-based hybrid generation and load in a microgrid system	Debashis Jana	International Transactions on Electrical Energy Systems	2020	3	2	Institute of Engineering and Management (IEM), Kolkata
Mitigating subsynchronous resonance using synchrophasor data based control of wind farms	Priyatosh Mahish	IEEE Transactions on Power Delivery	2019	2	0	Institute of Engineering and Management (IEM), Kolkata
Distributed synchronized control in grid integrated wind farms to improve primary frequency regulation	Priyatosh Mahish	IEEE Transactions on Power Delivery	2019	2	6	Institute of Engineering and Management (IEM), Kolkata

A State Predictive Approach to Mitigate Communication Latency and Data Loss for Wide Area Control of Power System	Priyatosh Mahish	IEEE Power & Energy Society General Meeting (IEEE)	2019	2	2	Institute of Engineering and Management (IEM), Kolkata
Blast furnace flue dust co-processing in cement kiln – A pilot study	Rahul Baidya	Waste Management & Research	2019	5	0	Institute of Engineering and Management (IEM), Kolkata
Low carbon cement manufacturing in India by co-processing of alternative fuel and raw materials	Rahul Baidya	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2019	5	2	Institute of Engineering and Management (IEM), Kolkata
Supply chain analysis of e-waste processing plants in developing countries	Rahul Baidya	Waste Management & Research	2020	5	4	Institute of Engineering and Management (IEM), Kolkata
Co-processing of industrial trade rejects in cement plant	Rahul Baidya	Waste Management & Research	2020	5	4	Institute of Engineering and Management (IEM), Kolkata
RoadSpeedSense: Context-Aware Speed Profiling from Smart-phone Sensors	Ratna Mandal	EAI Endorsed Transactions on Energy Web	2020	3	0	Institute of Engineering and Management (IEM), Kolkata
A Complete Routing Simulator for Digital Microfluidic Biochip	Rupam Bhattacharya	International Journal of Information System Modeling	2020	2	0	Institute of Engineering and Management (IEM), Kolkata

		and Design (IJISMD) in 2019				
Analytical Investigation of Nanoparticle as a Drug Carrier Suspended in a MHD Blood Flowing Through an Irregular Shape Stenosed Artery	Satyasaran Changdar	Iranian Journal of Science and Technology, Transactions A: Science	2020	4	0	Institute of Engineering and Management (IEM), Kolkata
Deep Learning-Based Automated Feature Engineering for Rice Leaf Disease Prediction	Soumi Dutta	Computational Intelligence in Pattern Recognition	2020	4	3	Institute of Engineering and Management (IEM), Kolkata
In-Detail Analysis on Custom Teaching and Learning Framework	Subhabrata Sengupta	Education and Information Technologies	2020	3	0	Institute of Engineering and Management (IEM), Kolkata
On Outage Analysis in SWIPT Enabled Bidirectional D2D Communications using Spectrum Sharing in Cellular Networks	Sutanu Ghosh	IEEE Transactions on Vehicular Tech.	2020	2	0	Institute of Engineering and Management (IEM), Kolkata
A compact circularly polarized isosceles triangular microstrip patch antenna with parasitic elements for	Malay Gangopadhyay	Microwave and Optical Technology Letters	2020	2	2	Institute of Engineering and Management (IEM), Kolkata

multiband application					
3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :					
Number of Faculty	International	National	State	Local	
Attended/Seminars/ Workshops	283	325	65	347	
Presented papers	257	165	0	0	
Resource Persons	54	43	24	37	
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 co-ordinated in such activities	Number of students participated in such activities		
Industry Visit	North India Wires Limited, Budge Budge, Kolkata	28	252		
Industry Visit	Hitachi –Center of Excellence Venue- johnson control hitachi-center of excellence, Kolkata	24	175		
Industry Visit	Britania Industries, Kolkata	27	230		
Industry Visit	G-Centre Mall, Kolkata	24	228		
Industry Visit	RTS Power Corporation in association with YI	39	187		
Industry Visit	National Test House, Kolkata	24	178		
Industry Visit	ERTL, Kolkata	27	154		
Industry Visit	DRDO, Kolkata	19	87		
Industry Visit	ISRO, Kolkata	23	134		
Save water Campaign	Association with NKDA	27	142		
Yoga and Meditation	IEM	76	230		
Tree Plantation	SMILE	38	214		
Camps for helping the poor.	PHOENIX	28	127		

Distribution of foods, clothes, masks and sanitizers Launched e-magazine named Kalparath. Drawing and writing competition named Chitralkha.			
Celebration of International Women's day in association with NGO "She" on Women Empowerment	IEM, NGO SHE	37	124
IISF	DST and Govt. of India	54	285
IEM PET SOCIETY	IEM	45	245
IEM-UEM MARATHON	IEM	150	652
UEM-IEM Cyclothon	IEM	78	576

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
ASME E-Fests	1 st	ASME	1
ASME E-Fests	2 nd	ASME	1
AICTE ChattraViswakarma Awards 2019	National Finalist	AICTE & ISTE	4
Photography Competition	1 st	ISHRAE, Kolkata	1
Photography Competition	2 nd	ISHRAE, Kolkata	1
Quiz Quarantino	1 st	ISHRAE, Kolkata	1
Quiz Quarantino	2 nd	ISHRAE, Kolkata	1
Quiz Quarantino	3 rd	ISHRAE, Kolkata	1
Facebook All Star Quiz	1 st	ISHRAE	1
Aquest Finals (Noida)	1 st	ISHRAE	2

Aquest Finals (Noida)	3 rd	ISHRAE	2
Aquest Semi Finals South East Zone	3 rd	ISHRAE	2
Aquest Semi Finals South East Zone	2 nd	ISHRAE	2
Aquest Semi Finals South East Zone	1 st	ISHRAE	2
Aquest Quarter Finals South East Zone	1 st	ISHRAE	2
Aquest Quarter Finals South East Zone	2 nd	ISHRAE	2
Aquest Quarter Finals South East Zone	3 rd	ISHRAE	2
Swachh Bharat Awareness campaigning	3 rd	ASME	7
Entrepreneurship awareness Institute in South East Zone	1 st	NEN, Wadwani Foundation	6
Gender equality awareness	2 nd	Shakthi - A National Movement for Women	4
Environment awareness campaign	1 st	Rotary Club	5

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 coordinated in such activities	Number of students participated in such activities
Swachh Bharat Abhiyan	ASME – IEM Chapter	Awareness in the society on Cleanliness of the Environment on the occasion of Gandhi Jayanti	52	125
Free education and well-being for under-privileged children	Lion's Club	Free education and well-being for under-privileged children	18	114
Plantation of trees and cleanliness of locality	Rotary Club	Plantation of trees and cleanliness of locality	24	104

Swachh Bharat	Department of Basic Sciences & Humanities, IEM	Cleaning of the Neighbourhood	15	75
A Quiz Contest on Yoga & Naturopathy	https://www.mygov.in/	Yoga and Naturopathy quiz	47	178
International Yoga Day	Shakthi - A National Movement for Women & Vedic & Scientific Research Foundation	Create health awareness and healthy lifestyle	25	67
How to maintain proper & meaningful human rights in the present situations in our state	Deshar Mati - Human Rights	Create an awareness of legal rights	76	124
A dialogue with - Prof Sharada Srinivasan and Dr Anil Kakodkar	Nataraja: A confluence of Arts and Science	Create a knowledge of the effect of science on emerging art	42	117
VISWA YOGA DIWAS	Vivekananda Vijnan Mission	Create health awareness and healthy lifestyle	52	142
Celebration of Dr Shyamaprasad Mookerjee	Nivedita Shakti	Discuss about the latest trends on research and development	82	158
KESAVAM - celebrate the Krishna in You	Woman Times	A charitable cultural event for people affected by the devastating cyclone - AMPHAN	17	28
SHAKTI LIVE TALK	Shakti Bharat	Women in Science and Technology - Education and Career Opportunities in India	46	175

Camps for helping the poor. Distribution of foods, clothes, masks and sanitizers Launched e-magazine named Kalparath. Drawing and writing competition named Chitralkha.	PHOENIX	Camps for helping the poor. Distribution of foods, clothes, masks and sanitizers Launched e-magazine named Kalparath. Drawing and writing competition named Chitralkha	28	127
Awariness camp	NGO SHE, IEM	“women’s ERA”	37	124

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
Faculty Exchange under HORN(Hyogo Overseas reseach Network)	Kakoli Dutta	Fellowship funded by HUMAP, Japan	One month (15 th Jun-16 th July)
HOSIGRA–AGRAHO research meet, Sète, France, April, 2019	Eric Sopena, University of Bordeaux, Bordeaux, France, Prof. Sagnik Sen, IIT Dharwad, Soumen Nandi (IEM)	Funded by HOSIGRA Project	01.04.2019 to 30.04.2019
Collaborative Reesearch	Soumen Nandi (IEM), Sagnik Sen (IITD), Eric Sopena (University of Bordeaux), Julien Bensmail (University of Ice), Reza Naserasr (University of Paris, Didoret), Sandip Das (ISI, Kolkata), Subir Kumar Ghosh (RKMVERI, Belur)	Funded by SGNF project	22.01.2020 to 26.01.2020
Customer Satisfaction Survey in Salt Lake Sector V	Dr. Rabin Mazumder, Dr. Saikat Chakrabarti	Naba Diganta Water Management Limited	One month (25 th Feb-25 th March)
Research Collaboration with IIM-C	Dr. Rabin Mazumder	NIL	2 Years (2018-2020)

Research Collaboration with Jadavpur University	Dr Rahul Baidya	Nil	December 2019 – February 2021
Research Collaboration with IEST Shibpur	Dr Rahul Baidya	Nil	July 2019 - June 2021
Research Collaboration with University of Hertfordshire	Dr Rahul Baidya	Nil	July 2019 - June 2021
Research Collaboration with Aston University	Dr Rahul Baidya	Nil	July 2019 - June 2021
Research Collaboration with Creonimus Technology Solution LLP	Prof. Rimjhim Majumdar	Nil	February 2020 –January 2021
National Entrepreneurship Network in Association with Wadhvani Foundation	Management Students 1 st Year	NA	February 2020 –January 2021
Joint Indo- Italian project	Dr Sejuti Khanra (Post-Doctoral Fellow)	Department of Science & Technology (DST)	February 2020 –July 2020
Industry-Institute partnership	Dr. Avishek Ray	Solar Energy Society of India (National)	April 2020 –March 2021
Industry-Institute partnership	Dr. Avishek Ray	ISHRAE (National)	April 2020 –March 2021
Industry-Institute partnership	Dr. Avishek Ray	IEI (National)	April 2020 –March 2021
Research collaboration with	Dr. Avishek Ray	Jadavpur University	April 2020 –March 2021
Research collaboration with Jadavpur University	Dr. Malay Gangopadhyaya	Nil	April 2020 –March 2021
Research collaboration with Anna University	Dr. Atanu Panda	Nil	April 2020 – March 2021
Research collaboration with ISM, Dhanbad	Dr. Rintu Kumar Gayen	Nil	April 2020 – March 2021
Research collaboration with Jadavpur University	Dr. Kaushik Patra	Nil	April 2020 – March 2021
Research collaboration with IISc, Bangalore	Dr. G.S.Taki	Nil	April 2020 – March 2021

Research collaboration with UGC-DAE CSR, Kolkata Center	Dr. G.S.Taki	Nil	April 2020 – March 2021
Research collaboration with CRNN, Kolkata	Dr.G.S.Taki	Nil	April 2020 – March 2021
Research collaboration with CADENA on IOT	Prof. Amit Kumar Das	Nil	April 2020 – March 2021
Research collaboration with CU on Machine Learning	Prof. Amit Kumar Das	NA	April 2020 – March 2021
Research collaboration with CTS on Machine Learning & Big Data	Prof. Amit Kumar Das	NA	April 2020 – March 2021
Research collaboration with CDAC Kolkata Centre	Prof. Nilanjana Dutta Roy	Ministry of Information Technology, Govt. of India	2 years (September 2019- August 2021)
Research collaboration with Biotech Hub, Assam Central University	Prof. Nilanjana Dutta Roy	DBT, Govt. of India	3 years (December 2019- November 2022)

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-To)	Participant
Industries for internship	Industries for internship	BackOffice Associates (BOA), Singapore	17 th June, 2019 – 21 st July, 2019	Students
Industries for internship	Industries for internship	Keysight Inc, Kolkata	15 th June, 2019 – 31 st July, 2019	Students
Industries for internship	Industries for internship	NRI FINTECH, Kolkata	20 th June, 2019 – 20 th July, 2019	Students
Industries for internship	Industries for internship	Ardent Computech Pvt. Ltd. GP	20 th June, 2019 – 20 th July, 2019	Students

		Block Sector V, Salt Lake, Kol 91		
On Job Training	Campus to Corporate	PWC SDS, Kolkata	1 st July, 2019 – 1 st September, 2019	Students
INDUTRIES FOR INTERNSHIP	Vodafone Pathshala	Vodafone, Kolkata	21 st June, 2019 – 21 st July, 2019	Students
Industries for internship	Industries for internship	VECC, Kolkata	15 th February, 2020 – 1 st June, 2020	Students
Industries for internship	Industries for internship	Bose Institute, Kolkata	1 st February, 2020 – 1 st April, 2020	Students
Industries for internship	Industries for internship	BSNL, Kolkata	6 th January, 2020 – 26 th January, 2020	Students
Industries for internship	Industries for internship	Airport Authority of India, Kolkata	6 th January, 2020 – 6 th February, 2020	Students
Industry Collaboration	Research Collaboration	Altor Technologies Private Limited, Kolkata, India	1 st July 2019-30 th June 2020	Dr. Malay Gangopadhyaya
Industry Collaboration	Research Collaboration	FLAMINGO ELECTRIC VEHICLES LLP, Kolkata, India	1 st July 2019-30 th June 2020	Dr. Malay Gangopadhyaya
Industry Collaboration	Research Collaboration	Nihilent Analytics Limited, Kolkata, India	1 st July 2019-30 th June 2020	Dr. Malay Gangopadhyaya
Industry Collaboration	Research Collaboration	Rebecca technologies, Kolkata, India	1 st July 2019-30 th June 2020	Prof. Rintu Kumar Gayen & Prof. Kaushik Patra
Industry Collaboration	Research Collaboration	Praesus Technologies Private Limited, Kolkata, India	1 st July 2019-30 th June 2020	Prof. Sanghamitra Poddar
Academic	Research	Jadavpur	1 st July 2019-30 th	Dr. Malay

Collaboration	Collaboration	University, Kolkata, India	June 2020	Gangopadhyaya
Academic Collaboration	Research Collaboration	British Columbia Institute of Technology, Vancouver, Canada	1 st July 2019-30 th June 2020	Dr. Malay Gangopadhyaya
Academic Collaboration	Research Collaboration	University of Connecticut-Stamford, USA	1 st July 2019-30 th June 2020	Dr. Malay Gangopadhyaya
Academic Collaboration	Research Collaboration	IIT, Kharagpur, India	1 st July 2019-30 th June 2020	Dr. Malay Gangopadhyaya
Academic Collaboration	Research Collaboration	Anna University, India	1 st July 2019-30 th June 2020	Dr. Atanu Panda
Academic Collaboration	Research Collaboration	IIT (ISM), Dhanbad, India	1 st July 2019-30 th June 2020	Dr. Rintu Kumar Gayen
Academic Collaboration	Research Collaboration	IIT, Kharagpur, India	1 st July 2019-30 th June 2020	Dr. Rintu Kumar Gayen
Academic Collaboration	Research Collaboration	CSIR-CGCRI, Kolkata, India	1 st July 2019-30 th June 2020	Soham Kanti Bishnu
Academic Collaboration	Research Collaboration	Indian Association for the Cultivation Of Science, Kolkata, India	1 st July 2019-30 th June 2020	Dr. Sankhyabrata Bandyopadhyay
Academic Collaboration	Research Collaboration	Bose Institute, Kolkata, India	1 st July 2019-30 th June 2020	Indranil Basu
Academic Collaboration	Research Collaboration	IISc, Bangalore, India	1 st July 2019-30 th June 2020	Dr. K.K.Ghosh
Academic Collaboration	Research Collaboration	IISc, Bangalore, India	1 st July 2019-30 th June 2020	Dr. G.S.Taki
Academic Collaboration	Research Collaboration	UGC-DAE CSR, Kolkata Center, India	1 st July 2019-30 th June 2020	Dr. G.S.Taki
Academic Collaboration	Research Collaboration	CRNN, Kolkata, India	1 st July 2019-30 th June 2020	Dr.G.S.Taki

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
University of Nevada, Las Vegas	20/07/2018	i) Joint Research Activities	2

		ii) Personnel exchange for purposes of study and research iii) Information exchange in fields of interest to academic personnel and students of IEM-UEM & UNLV iv) Academic personnel exchange for lectures, talks, symposiums conversations and sharing of experiences.	
Global Language Centre (CDA)	06/10/2018	Collaborative work	25
University of Aizu	22/02/2019	Promoting closer ties and greater understanding in higher education and science and technology	15
REBACA Technologies	04/03/2019	Industrial Tieup	9
CADENA	10/03/2019	Industrial Tieup	8
ITOrizin	April, 2019	Industrial Tie-up	14
Alien Brains	March 2019	Industrial Tie-up	5
Dirac Business Solutions	April, 2019	Industrial Tie-up	18
CII	17/08/2019	Industrial Tie-up	21
YUVA	01/06/2020	Industrial Tie-up	1000
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	
200000000		106797678.6	
4.1.2 – Details of augmentation in infrastructure facilities during the year			
Facilities	Existing	Newly Added	
Campus Area	350 Lakhs sq.ft.	-	
Class rooms	71	10	

Laboratories	73	5
Seminar Halls	10	2
Classrooms with LCD facilities	57	4
Classrooms with Wi-Fi OR LAN	71	10
Seminar halls with ICT facilities	71	10
Video Centre	0	3
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	-	32
Value of the equipment purchased during the year (Rs. in lakhs)	-	Rs. 197 Lakhs
Others	-	Virtual Reality (VR) Lab is developed, Antenna research Lab is developed

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
LSEase	Partially	LSEase(Rel.5.0)	2005
KOHA	Partially	KOHA (19.05.06.000)	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	68740	30,933,000	3407	2,126,271	72147	33,059,271
Reference Books	5735	4,014,500	103	82,400	5838	4,096,900
e-Books	350	Download pdf	150	-	500	Download pdf
Journals	25 (Printed)	150000	9	24000	34	174,000
e-Journals	2500 full text journals 1.IEEE 2.EBSCO 3.JGate(JET) 4.JSMS 5.Delnet	992,577	1 (Springer, Nature)	1,27,700.00	2666 full text journals	1,120,277
Digital Database	2	151,984	-	-	-	151,984
CD & Video	250	250000	-	-	-	-

Library automation	1.KOHA 2.LSEase(Rel.5.0)	2,35,000	KOHA new version(19.05.06.000)	130,000.00	365,000	2 Software
Weeding (Hard & Soft)	1000	170,000	-	-	-	-
Others (specify)	135 computers 3 xerox machine	3,375,000	10	250,000	145	3,625,000

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1650	912	1650	120	115	27	145	1	30
Added	137	100						1	
Total	1787	1012	1650	120	115	27	145	2	30

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

2 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
Gymkhana TV	http://www.gymkhanatv.org
IEMLEARNING	https://www.iemlearning.com/

4.3.4 – 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
Sohini Datta	Communication including Business aspects	https://www.iemlearning.com/	24 th December, 2019
Sourav Banerjee	Quantitative Techniques	https://www.iemlearning.com/	24 th December, 2019
Arundhati Ray	Managerial Economics(Micro)	https://www.iemlearning.com/	24 th December, 2019
Anik Kumar Hazra	Legal Environment And Constitutional Aspects	https://www.iemlearning.com/	24 th December, 2019
Sutapa Chatterjee Bhattacharya	Organisational Behaviour	https://www.iemlearning.com/	21 st January, 2020
Bikas Chandra	Marketing Research	https://www.iemlearning.com/	21 st January, 2020

Mandal		ning.com/	
Bikas Chandra Mandal	Service Marketing	https://www.iemlearning.com/	21 st January, 2020
Prarthana Banerjee	Managerial Economics	https://www.iemlearning.com/	21 st January, 2020
Dr. Prasenjit Kundu	Modeling Techniques	https://www.iemlearning.com/	21 st January, 2020
Prof. Writaparna Mukherjee	Data Visualization Using Excel	https://www.iemlearning.com/	21 st January, 2020
Prof Saptaparna Ghosh	Digital Marketing & Social Media Marketing	https://www.iemlearning.com/	21 st January, 2020
Prof Swati Mukherjee	Digital Marketing & Social Media Marketing	https://www.iemlearning.com/	20 th February, 2020
Prof Kaushik Kumar Ganguly	Sales & Distribution Management	https://www.iemlearning.com/	20 th February, 2020
Prof Anik Hazra	BFSI Sector Management – I	https://www.iemlearning.com/	20 th February, 2020
Dr. Prasenjit Kundu & SN	Managerial Business Intelligence	https://www.iemlearning.com/	20 th February, 2020
Pritha Banerjee	Computer Application	https://www.iemlearning.com/	20 th February, 2020
Ajanta Ghosh	Financial Accounting and Tally	https://www.iemlearning.com/	19 th March, 2020
Ajanta Ghosh	Financial Management	https://www.iemlearning.com/	19 th March, 2020
Suchana Roy	English	https://www.iemlearning.com/	19 th March, 2020
Joydeep Mukherjee	Sales & Distribution Management	https://www.iemlearning.com/	19 th March, 2020
Saikat Chakrabarti	HRD	https://www.iemlearning.com/	19 th March, 2020
Saikat Chakrabarti	Principles of Management	https://www.iemlearning.com/	19 th March, 2020
Dr. Rabin Mazumder	Micro Economics	https://www.iemlearning.com/	22 nd April, 2020
Dibyendu Chattaraj	Entrepreneurship Development	https://www.iemlearning.com/	22 nd April, 2020
Dibyendu Chattaraj	Operations & Supply Chain Management	https://www.iemlearning.com/	22 nd April, 2020
Dibyendu Chattaraj	Sales & Distribution Management	https://www.iemlearning.com/	22 nd April, 2020
Sreeparna Guha	Business Mathematics – I	https://www.iemlearning.com/	22 nd April, 2020
Bidushi Chakraborty	Business Mathematics	https://www.iemlearning.com/	22 nd April, 2020

Bidushi Chakraborty	Business Statistics-1	https://www.iemlearning.com/	18 th May, 2020
Sreeparna Guha	Business Statistics - I	https://www.iemlearning.com/	18 th May, 2020
Lavanya Deepika Tigga	Principles of Management	https://www.iemlearning.com/	18 th May, 2020
Lavanya Deepika Tigga	Research Methodology	https://www.iemlearning.com/	18 th May, 2020
Arkaprava Chakraborty	Financial Accounting	https://www.iemlearning.com/	18 th May, 2020
Arkaprava Chakraborty	Financial Management	https://www.iemlearning.com/	19 th March, 2020
Arkaprava Chakraborty	Entrepreneurship Development	https://www.iemlearning.com/	19 th March, 2020
Abhijit Sarkar	Introduction to C Programming	https://www.iemlearning.com/	19 th March, 2020
Abhijit Sarkar	Computer Graphics	https://www.iemlearning.com/	19 th March, 2020
Dr. Rupam Bhattacharya	Introduction to C Programming	https://www.iemlearning.com/	22 nd April, 2020
Dr. Rupam Bhattacharya	Object Oriented Programming With C++	https://www.iemlearning.com/	22 nd April, 2020
Dr. Goldina Ghosh	Operating system	https://www.iemlearning.com/	22 nd April, 2020
Ankan Bhowmik	Unix and Shell Programming	https://www.iemlearning.com/	21 st January, 2020
Dr. Goldina Ghosh	Unix and Shell programming	https://www.iemlearning.com/	20 th February, 2020
Ankan Bhowmik	Cyber Security	https://www.iemlearning.com/	20 th February, 2020
Ankita Mandal	Mathematics for Computing	https://www.iemlearning.com/	20 th February, 2020
Ankita Mandal	Basic Mathematical Computation	https://www.iemlearning.com/	18 th May, 2020
Sreelekha Biswas	Basic Mathematical Computation	https://www.iemlearning.com/	18 th May, 2020
Sreelekha Biswas	Mathematics for Computing	https://www.iemlearning.com/	18 th May, 2020
Pritha Banerjee	Digital Electronics	https://www.iemlearning.com/	18 th May, 2020
Nikesh kumar	Engineering Thermodynamics	https://www.iemlearning.com/	19 th March, 2020
Nikesh kumar	Power plant Engineering	https://www.iemlearning.com/	19 th March, 2020
Nikesh kumar	Theory of machine	https://www.iemlearning.com/	21 st January, 2020

Sandip Kumar Chaudhury	Advanced Manufacturing Technology	https://www.iemlearning.com/	21 st January, 2020
Sandip Kumar Chaudhury	Engineering Mechanics	https://www.iemlearning.com/	21 st January, 2020
Joydip Ray	Engineering Graphics & Design	https://www.iemlearning.com/	20 th February, 2020
Joydip Ray	Materials Engineering	https://www.iemlearning.com/	18 th May, 2020
Joydip Ray	Engineering Mechanics	https://www.iemlearning.com/	18 th May, 2020
Asim Kumar Dhar	Solid Mechanics	https://www.iemlearning.com/	19 th March, 2020
Asim Kumar Dhar	Engineering Mechanics	https://www.iemlearning.com/	19 th March, 2020
Rahul Baidya	Heat Transfer	https://www.iemlearning.com/	19 th March, 2020
Barun Das	Engineering Materials	https://www.iemlearning.com/	19 th March, 2020
Sudipta Swain	Workshop & Manufacturing Processes	https://www.iemlearning.com/	22 nd April, 2020
Sudipta Swain	Advanced Manufacturing Technology	https://www.iemlearning.com/	22 nd April, 2020
Dr. Sudhir Chandra Murmu	Engineering Mechanics	https://www.iemlearning.com/	22 nd April, 2020
Dr. Sudhir Chandra Murmu	Heat Transfer	https://www.iemlearning.com/	22 nd April, 2020
Gunjan Kumar	Engineering Thermodynamics	https://www.iemlearning.com/	21 st January, 2020
Gunjan Kumar	Power Plant Engineering	https://www.iemlearning.com/	20 th February, 2020
Dr. Bikash Choudhuri	Kinematics & Theory of Machines	https://www.iemlearning.com/	20 th February, 2020
Dr. Bikash Choudhuri	Solid Mechanics	https://www.iemlearning.com/	21 st January, 2020
Gora Chakraborty	Engineering Drawing	https://www.iemlearning.com/	21 st January, 2020
Gora Chakraborty	Engineering Mechanics	https://www.iemlearning.com/	20 th February, 2020
Gora Chakraborty	Engineering Thermodynamics	https://www.iemlearning.com/	18 th May, 2020
Tapas Kumar Datta	Electrical Machine II	https://www.iemlearning.com/	18 th May, 2020
Tapas Kumar Datta	Electromagnetic Field Theory	https://www.iemlearning.com/	19 th March, 2020

Prof. Nirban Kumar Saha	Basic Electrical Engineering	https://www.iemlearning.com/	19 th March, 2020
Swetadri Ghosh	Renewable and Non Conventional Energy	https://www.iemlearning.com/	19 th March, 2020
Swetadri Ghosh	Analog Electronic Circuits	https://www.iemlearning.com/	19 th March, 2020
Prof. Dr. Priyatosh Mahish	Network Theory	https://www.iemlearning.com/	22 nd April, 2020
Ranjita Chowdhury	Power System-I	https://www.iemlearning.com/	22 nd April, 2020
Ankit Ray Ghatak	Electric Machine-II	https://www.iemlearning.com/	22 nd April, 2020
Ranjita Chowdhury	Power System-III	https://www.iemlearning.com/	18 th May, 2020
Dr.Sanjoy Mondal	Control system I	https://www.iemlearning.com/	18 th May, 2020
Dr. Sanjoy Mondal	Electric Drive	https://www.iemlearning.com/	18 th May, 2020
Somnath Hazra	Renewable and Nonconventional Energy	https://www.iemlearning.com/	19 th March, 2020
Rajat Shubhra Pal	Power Electronics	https://www.iemlearning.com/	19 th March, 2020
Debashis Jana	Power System I	https://www.iemlearning.com/	19 th March, 2020
Rajat Shubhra Pal	Electromagnetic Field Theory	https://www.iemlearning.com/	19 th March, 2020
Debashis Jana	Power System III	https://www.iemlearning.com/	22 nd April, 2020
Sahitya Roy	Analog Electronics	https://www.iemlearning.com/	22 nd April, 2020
Sahitya Roy	Basic Electrical Engineering	https://www.iemlearning.com/	22 nd April, 2020
Dr. Madhumita Pal	Control System	https://www.iemlearning.com/	21 st January, 2020
Subhendu Banerjee	Power Electronics	https://www.iemlearning.com/	20 th February, 2020
Subhendu Banerjee	Electric Drive	https://www.iemlearning.com/	20 th February, 2020
Dr. Madhumita Pal	Utilization of Electric Power	https://www.iemlearning.com/	20 th February, 2020
Dr. Rajib Malik	Network Theory	https://www.iemlearning.com/	18 th May, 2020
Dr. Rajib Malik	Utilization of Electric Power	https://www.iemlearning.com/	18 th May, 2020
Dr. Priyatosh Mahish	Power System I	https://www.iemlearning.com/	18 th May, 2020

Prof. Dr. Priyatosh Mahish	Power System I	https://www.iemlearning.com/	18 th May, 2020
Ankit Ray Ghatak	Power System-I	https://www.iemlearning.com/	19 th March, 2020
Nirban Chakraborty	Electric Circuit Theory	https://www.iemlearning.com/	19 th March, 2020
Arijita Das	Electric Circuit Theory	https://www.iemlearning.com/	21 st January, 2020
Nirban Chakraborty	Non-Conventional Energy	https://www.iemlearning.com/	21 st January, 2020
Dr Avishek Ray	Power Electronics	https://www.iemlearning.com/	21 st January, 2020
Dr Avishek Ray	Renewable Energy	https://www.iemlearning.com/	20 th February, 2020
Neeta Sahay	Analog and Digital Electronics	https://www.iemlearning.com/	18 th May, 2020
Neeta Sahay	Bio-Medical Instrumentation	https://www.iemlearning.com/	18 th May, 2020
Neeta Sahay	Basic Electronics	https://www.iemlearning.com/	19 th March, 2020
Dr. Swati Chowdhuri	Solid State Device	https://www.iemlearning.com/	19 th March, 2020
Dr. Swati Chowdhuri	Basic Electronics	https://www.iemlearning.com/	19 th March, 2020
Dr. Swati Chowdhuri	Digital Communication & Networks	https://www.iemlearning.com/	19 th March, 2020
Arijita Das	VLSI Design	https://www.iemlearning.com/	22 nd April, 2020
Pooja Joshi	VLSI Design	https://www.iemlearning.com/	22 nd April, 2020
Pooja Joshi	Solid State Devices	https://www.iemlearning.com/	22 nd April, 2020
Pooja Joshi	Control Systems	https://www.iemlearning.com/	22 nd April, 2020
Kajari Sur	Digital System Design	https://www.iemlearning.com/	21 st January, 2020
Parha Sarathi Paul	Digital System Design	https://www.iemlearning.com/	20 th February, 2020
Dr. Moutushi Singh	Computer Organization & Architecture	https://www.iemlearning.com/	19 th March, 2020
Dr. Indraneel Mukhopadhyay	Computer Organization & Architecture	https://www.iemlearning.com/	19 th March, 2020
Shreyasi Datta	Constitution of India Essence	https://www.iemlearning.com/	19 th March, 2020

Parha Sarathi Paul	Constitution of India Essence	https://www.iemlearning.com/	22 nd April, 2020
Dr. Indraneel Mukhopadhyay	Software Engineering	https://www.iemlearning.com/	22 nd April, 2020
Shreyasi Datta	Constitution of India	https://www.iemlearning.com/	22 nd April, 2020
Parha Sarathi Paul	Constitution of India	https://www.iemlearning.com/	18 th May, 2020
Arup Kumar Chattopadhyay	Compiler Design	https://www.iemlearning.com/	18 th May, 2020
Subhabrata Sengupta	Multimedia	https://www.iemlearning.com/	18 th May, 2020
Dr. Amit Kumar Mandal	Discrete Mathematics	https://www.iemlearning.com/	19 th March, 2020
Dr. Satyasan Changdhar	Discrete Mathematics	https://www.iemlearning.com/	19 th March, 2020
Dr. Satyasan Changdhar	Mathematics & Statistics III	https://www.iemlearning.com/	19 th March, 2020
Dr. Amit Kumar Mandal	Mathematics & Statistics III	https://www.iemlearning.com/	19 th March, 2020
Subhabrata Sengupta	Software Engineering	https://www.iemlearning.com/	22 nd April, 2020
Subhabrata Sengupta	Object Oriented Programming	https://www.iemlearning.com/	19 th March, 2020
Dr. Lopa Mandal	Object Oriented Programming	https://www.iemlearning.com/	19 th March, 2020
Rabi Behera	Internet Technology	https://www.iemlearning.com/	19 th March, 2020
Paramita Mitra	Internet Technology	https://www.iemlearning.com/	22 nd April, 2020
Avijit Bose	E-Commerce	https://www.iemlearning.com/	22 nd April, 2020
Subindu Saha	E-Commerce	https://www.iemlearning.com/	22 nd April, 2020
Dr. Satyasan Changdhar	Modeling & Simulation	https://www.iemlearning.com/	18 th May, 2020
Dr. Amit Kumar Mandal	Modeling & Simulation	https://www.iemlearning.com/	18 th May, 2020
Maumita Chakraborty	Data Structure and Algorithms	https://www.iemlearning.com/	18 th May, 2020
Swagatam Basu	Data Structure and Algorithms	https://www.iemlearning.com/	19 th March, 2020
Dr Baisakhi Das	AI and ML Fundamentals	https://www.iemlearning.com/	19 th March, 2020
Dr. Sanchita Ghosh	AI and ML Fundamentals	https://www.iemlearning.com/	19 th March, 2020
Avijit Bose	Introduction to	https://www.iemlearning.com/	19 th March, 2020

	Industrial Management	ning.com/	
Paramita Mitra	Operating System	https://www.iemlearning.com/	22 nd April, 2020
Dr. Moutushi Singh	Operating Systems	https://www.iemlearning.com/	22 nd April, 2020
Dr Baisakhi Das	Artificial Intelligence	https://www.iemlearning.com/	22 nd April, 2020
Dr. Sanchita Ghosh	Artificial Intelligence	https://www.iemlearning.com/	21 st January, 2020
Dr. Lopa Mandal	Cloud Computing	https://www.iemlearning.com/	20 th February, 2020
Anupam Mondal	Data Structure and Algorithms	https://www.iemlearning.com/	20 th February, 2020
Sumanta Chakraborty	Data Structure and Algorithms	https://www.iemlearning.com/	20 th February, 2020
Shubhasri Roy	Industrial Management	https://www.iemlearning.com/	18 th May, 2020
Soma Das	Artificial Intelligence	https://www.iemlearning.com/	18 th May, 2020
Soma Das	Artificial Intelligence	https://www.iemlearning.com/	18 th May, 2020
Srijita Basu	Cloud Computing	https://www.iemlearning.com/	18 th May, 2020
Nilanjana Dutta Roy	Data Structures and Algorithms	https://www.iemlearning.com/	19 th March, 2020
Kaushik Banerjee	Operating Systems	https://www.iemlearning.com/	19 th March, 2020
Darothi Sarkar	Operating System	https://www.iemlearning.com/	21 st January, 2020
Anindita Sarkar	Operating system	https://www.iemlearning.com/	21 st January, 2020
Sukanya Mukherjee	Artificial Intelligence	https://www.iemlearning.com/	21 st January, 2020
Bavrabi Ghosh	Introduction To Industrial Management	https://www.iemlearning.com/	20 th February, 2020
Dr. Debika Bhattacharyya	Database Management Systems	https://www.iemlearning.com/	18 th May, 2020
Sourav Ghosh	Object Oriented Programming	https://www.iemlearning.com/	18 th May, 2020
Shubhasri Roy	Software Engineering	https://www.iemlearning.com/	19 th March, 2020
Srijita Basu	OOPS-Java	https://www.iemlearning.com/	19 th March, 2020
Kaushik Banerjee	Discrete Mathematics	https://www.iemlearning.com/	19 th March, 2020

Kaushik Banerjee	Project Management	https://www.iemlearning.com/	19 th March, 2020
Dr.Shaktipada Nanda	Mathematics & Statistics -III	https://www.iemlearning.com/	22 nd April, 2020
Tufan Saha	Computer Organisation and Architecture	https://www.iemlearning.com/	22 nd April, 2020
Sumanta Chakraborty	Computer Graphics	https://www.iemlearning.com/	22 nd April, 2020
Shreejita Mukherjee	Computer Organization & Architecture	https://www.iemlearning.com/	22 nd April, 2020
Soma Das	Digital System Design	https://www.iemlearning.com/	21 st January, 2020
Monalisa Dey	Digital System Design	https://www.iemlearning.com/	20 th February, 2020
Gourab Panda	Digital System Design	https://www.iemlearning.com/	19 th March, 2020
Nilanjana Dutta Roy	Computer Graphics	https://www.iemlearning.com/	19 th March, 2020
Kaushik Banerje	Compiler Design	https://www.iemlearning.com/	19 th March, 2020
Sukanya Mukherjee	Computer Organisation & Architecture	https://www.iemlearning.com/	22 nd April, 2020
Ratna Chakrabarty	Wireless Communication	https://www.iemlearning.com/	22 nd April, 2020
Dr. Rajib Ghosh	Analog Electronics	https://www.iemlearning.com/	22 nd April, 2020
Dr. Rajib Ghosh	Electronic Devices	https://www.iemlearning.com/	18 th May, 2020
Dr. Rajib Ghosh	Electromagnetic Waves	https://www.iemlearning.com/	18 th May, 2020
Payel Midya	Signals & Systems	https://www.iemlearning.com/	18 th May, 2020
Payel Midya	Digital Signal Processing	https://www.iemlearning.com/	19 th March, 2020
Debadyoti Ghosh	Network theory	https://www.iemlearning.com/	19 th March, 2020
Arunava Mukhopadhyay	Digital Communication and Stochastic Process	https://www.iemlearning.com/	19 th March, 2020
Arunava Mukhopadhyay	Electromagnetic Waves	https://www.iemlearning.com/	19 th March, 2020
Atanu Panda	Robotics	https://www.iemlearning.com/	22 nd April, 2020
Atanu Panda	Signal and systems	https://www.iemlearning.com/	19 th March, 2020

Atanu Panda	Digital Signal Processing	https://www.iemlearning.com/	19 th March, 2020
Rintu Kumar Gayen	Electromagnetic Waves	https://www.iemlearning.com/	19 th March, 2020
Rintu Kumar Gayen	RF & Microwave	https://www.iemlearning.com/	22 nd April, 2020
Arindam Chakraborty	Digital Signal Processing	https://www.iemlearning.com/	22 nd April, 2020
Arindam Chakraborty	Computer Architecture	https://www.iemlearning.com/	22 nd April, 2020
Indranil Basu	Computer Architecture	https://www.iemlearning.com/	21 st January, 2020
Indranil Basu	Robotics	https://www.iemlearning.com/	20 th February, 2020
Gautam Ghosh	Analog Electronic Circuits	https://www.iemlearning.com/	20 th February, 2020
Gautam Ghosh	Power Electronics	https://www.iemlearning.com/	20 th February, 2020
Sutapa Ray Adhikary	Analog Electronic Circuits	https://www.iemlearning.com/	18 th May, 2020
Kaushik Patra	Signals & Systems	https://www.iemlearning.com/	18 th May, 2020
Kaushik Patra	Electromagnetic Waves	https://www.iemlearning.com/	18 th May, 2020
Kaushik Patra	Analog Communication	https://www.iemlearning.com/	18 th May, 2020
Mili Sarkar	Microelectronics and VLSI	https://www.iemlearning.com/	19 th March, 2020
Mili Sarkar	Analog Electronic Circuits	https://www.iemlearning.com/	19 th March, 2020
Mili Sarkar	Network theory	https://www.iemlearning.com/	21 st January, 2020
Dr G S Taki	RF & Microwave Engg.	https://www.iemlearning.com/	21 st January, 2020
Sutanu Ghosh	Digital Communication and Stochastic Process	https://www.iemlearning.com/	21 st January, 2020
Sutanu Ghosh	Wireless communication	https://www.iemlearning.com/	20 th February, 2020
Dr. Malay Gangopadhyay	Signals & Systems	https://www.iemlearning.com/	18 th May, 2020
Dr. Malay Gangopadhyay	Digital Signal Processing	https://www.iemlearning.com/	18 th May, 2020
Srijita Chakraborty	Wireless Communication	https://www.iemlearning.com/	19 th March, 2020
Soham Kanti Bishnu	Electromagnetic Waves	https://www.iemlearning.com/	19 th March, 2020

Amitava Ghosh	Electronic Devices	https://www.iemlearning.com/	19 th March, 2020
Amitava Ghosh	Microelectronics and VLSI	https://www.iemlearning.com/	19 th March, 2020
Amitava Ghosh	Network theory	https://www.iemlearning.com/	22 nd April, 2020
Dr. Shaktipada Nanda	Mathematics & Statistics –III	https://www.iemlearning.com/	22 nd April, 2020
Biswadip Basu Mallik	Mathematics & Statistics I	https://www.iemlearning.com/	22 nd April, 2020
Dr. Sharmistha Ghosh	Mathematics & Statistics I	https://www.iemlearning.com/	22 nd April, 2020
Krishanu Deyasi	Mathematics & Statistics I	https://www.iemlearning.com/	21 st January, 2020
Santanu Das	Mathematics & Statistics I	https://www.iemlearning.com/	20 th February, 2020
Kakoli Dutta	Chemistry	https://www.iemlearning.com/	19 th March, 2020
Kamakhya Prasad Ghatak	Mathematics & Statistics-I	https://www.iemlearning.com/	19 th March, 2020
Prabir Kumar Das	Chemistry	https://www.iemlearning.com/	19 th March, 2020
Dr. Pratap Mukherjee	Chemistry	https://www.iemlearning.com/	22 nd April, 2020
Dibakar Roy Choudhury	Chemistry	https://www.iemlearning.com/	22 nd April, 2020
Dr. Tina De	Chemistry	https://www.iemlearning.com/	22 nd April, 2020
Dr. Ruchira Mukherjee	Chemistry	https://www.iemlearning.com/	18 th May, 2020
Ranabir Banik	Physics	https://www.iemlearning.com/	18 th May, 2020
Soumyadipta Pal	Physics	https://www.iemlearning.com/	18 th May, 2020
Triparna Datta	Physics	https://www.iemlearning.com/	19 th March, 2020
Dr. Saswati Barman	Physics	https://www.iemlearning.com/	19 th March, 2020
Dr. Koyel Ganguly	Physics	https://www.iemlearning.com/	19 th March, 2020
Prajna Paromita Chanda	Physics	https://www.iemlearning.com/	19 th March, 2020
Arnab Basu	Physics	https://www.iemlearning.com/	22 nd April, 2020
DR. SAMAPIKA DAS BISWAS	English Communication and Public Speaking Skills	https://www.iemlearning.com/	19 th March, 2020

PROF. MOUSUMI PAUL	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	19 th March, 2020
Abhishikta Bhattacharjee	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	19 th March, 2020
Riya Barui	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	22 nd April, 2020
Prof. Riya Barui (RB) & Prof. Sohini Datta (SD)	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	22 nd April, 2020
Prof. Sohini Datta (SD)	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	22 nd April, 2020
Prof. Tiyasha Sengupta	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	18 th May, 2020
Prof. Abhishikta Bhattacharjee (ASB) & Sohini Datta (SD)	English Communication and Public Speaking Skills 	https://www.iemlearning.com/	18 th May, 2020
Amartya Mukherjee	Computer Programming and Problem Solving using C	https://www.iemlearning.com/	18 th May, 2020
Dibyasree Guha	Computer Programming and Problem Solving using C	https://www.iemlearning.com/	19 th March, 2020
Ayan Kumar Panja	Computer Programming and Problem Solving using Python and C – 	https://www.iemlearning.com/	19 th March, 2020
Soumen Nandi	Programming for Problem Solving	https://www.iemlearning.com/	19 th March, 2020
Dr. Saktipada Nanda	Vedic Mathematics	https://www.iemlearning.com/	22 nd April, 2020
Dr. Indraneel	Power of	https://www.iemlearning.com/	22 nd April, 2020

Mukhopadhyay	Powerpoint	ning.com/	
Suchana Roy	Communication & Interpersonal Skills Training	https://www.iemlearning.com/	22 nd April, 2020
Subhabrata Sengupta	Interview Skill	https://www.iemlearning.com/	18 th May, 2020
Subhabrata Sengupta	Website Creation with HTML	https://www.iemlearning.com/	18 th May, 2020
Sumanta Chakraborty	Animation using Java Swing Library	https://www.iemlearning.com/	18 th May, 2020
Dr. Samapika Das Biswas	Relationship Management	https://www.iemlearning.com/	22 nd April, 2020
Anuradha Ray	Financial & Cost Accounting	https://www.iemlearning.com/	22 nd April, 2020
Arkaprava Chakraborty	Financial & Cost Accounting	https://www.iemlearning.com/	22 nd April, 2020
Soumi Saha	IP Innovation & Entrepreneurship	https://www.iemlearning.com/	18 th May, 2020
Bipasa Mukherjee	IP Innovation & Entrepreneurship	https://www.iemlearning.com/	18 th May, 2020
Mohuya Chakraborty	IP Innovation & Entrepreneurship	https://www.iemlearning.com/	18 th May, 2020
Biswadip Basu Mallik	Basic Course on Data Science using Statistics	https://www.iemlearning.com/	22 nd April, 2020
Moumita Basu	Basic Course on Data Science using Statistics	https://www.iemlearning.com/	22 nd April, 2020
Krishanu Deyasi	Basic Course on Data Science using Statistics	https://www.iemlearning.com/	22 nd April, 2020
Santanu Das	Basic Course on Data Science using Statistics	https://www.iemlearning.com/	18 th May, 2020
Subhabrata Sengupta	Cloud Computing	https://www.iemlearning.com/	18 th May, 2020
Indraneel Mukhopadhyay	Cybersecurity 101	https://www.iemlearning.com/	18 th May, 2020
Monalisa Dey	NLP for Professionals	https://www.iemlearning.com/	22 nd April, 2020
Anupam Mondal	NLP for Professionals	https://www.iemlearning.com/	22 nd April, 2020
Mohuya Chakraborty	Cryptography & Block-chain Basics	https://www.iemlearning.com/	22 nd April, 2020
Swati Mukherjee	Digital Marketing	https://www.iemlearning.com/	18 th May, 2020
Saptaparna Ghosh	Digital Marketing	https://www.iemlearning.com/	18 th May, 2020

Amit Kumar Das	Machine Learning Python	https://www.iemlearning.com/	18 th May, 2020
Ayan Panja	IOT and Machine Learning Hands On for Beginners	https://www.iemlearning.com/	22 nd April, 2020
Amartya Mukherjee	IOT and Machine Learning Hands On for Beginners	https://www.iemlearning.com/	18 th May, 2020

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
Rs. 2,00,00,000.00	Rs. 1,81,79,320.00	Rs. 7,00,00,000.00	Rs. 6,91,44,638.86

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)

The physical facilities including Laboratories, Classrooms and Computers etc. are made available for the students those who are admitted in the college. The students seek admission in desired courses are charged at the time of the admission as suggested by the statutory body MAKAUT (formerly WBUT). Separate funds are allotted to all H.O.D of the respective department for maintenance of the laboratories and the classrooms which are parts of the teaching and the learning processes The classrooms boards and furniture facilities are utilized regularly by the students but sometimes it is also made available for the other governmental and the nongovernmental organizations for conducting the exams like scholarships, WBJEE, PSC, UPSC, etc if not in use for the said period. The maintenance and the cleaning of the classrooms and the laboratories are done with the efforts of regular staff of the institute. The college garden is maintained by the gardener appointed by the institute. The college has adequate number of the computers with internet and Wi-Fi connections and the utility software distributed in different departments like office, laboratories, library, etc. All the stakeholders have equal opportunity to use those facilities as per the rules and the policies of the institution. The central computer laboratory connected in LAN is open for the students as time permits them, the office computers which are also connected through the LAN is consisting of the office software making work easier and systematic are restricted their use only to the appointed office staff. The library is also provided LAN facility for the computers and they are loaded with the library software. The departments and the staff can make use of the computer system with internet at their seating places in addition that majority of the staff has their own laptops and the internet providing instruments all those computer related facilities are under AMC. The ICT Smart Class Rooms and the related systems are maintained with AMC of the corresponding service provider. Electrical and the plumbing related maintenance is done with the help of Institute appointed skilled persons and the expenditure is done from yearly allotted budget approved by the competent authorities. The academic support facilities like library, the sports and other platforms supporting overall development of the students like NSS or Competitive examination cell etc. is open only to the college students. 24X7 hours accession is permitted at the cost of the deposits of onetime library fees. A provision of the budget for the library maintenance is made by the college management. The activities like fumigation and keeping library clean is done frequently by library staff. The sports department of the college is meritorious and some credit defiantly goes to the adequate infrastructure of this department consisting of 3 basketball courts, volleyball courts, badminton court, rooftop mini golf court and cricket practice area can be used by students and staffs. The running track and the outdoor facilities are free to use for all the stakeholders.

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	T.W.F.	144	1,15,20,000.00
	SCHOLARSHIP	185	1,37,75,000.00
Financial Support from Other Sources			
a) National	MINORITY	60	32,40,000.00
	GOVT. OF STATE	7	3,80,000.00
b)International	-	-	-

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counseling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Mentoring Session by IFS Officer	6 th August, 2019	80	Mr. Agni Mitra, IFS Officer
Mentoring Session by Alumni	30 th August, 2019	40	Debojyoti Chakraborti, TCS Innovation Cell
Entrepreneurship Development Workshop	19 th September, 2019	50	IEI
Foreign Language Class	6 th January, 2020	40	CDA Global Language Centre
Bridge course for Lateral students	4 th September, 2019	19	Departmental faculties
Personal counseling & Mentoring	Jul 2019 to Jun 2020	119	Departmental faculties
Soft skill development	Jul 2019 to Jun 2020	199	External Experts
Yoga & Meditation	3 August 2020	360	Heartfulness Institute
Training on Foreign Language	10 January 2020	360	Mr. Tamal Mukhopadhyay
Personal Counseling	Continuous process	285	Prof. Saikat Chakrabarti, Prof. Subrata Basak and Prof. Suchana Roy from BBA Dept.,
Digital Language Lab	17.09.2019	212	ORWELL
Capstone Simulation Lab	08.03.2019	200	CAPSTONE
Remedial coaching	10 th September 2019	150	IEM
Language lab	20 th January 2020	258	IEM Toastmasters Club
Bridge courses	8 th August 2019	258	Scott Nicole, Chasing Time

			English
Yoga	26 th August 2019	258	Sports Department, IEM Kolkata
Meditation	26 th August 2019	258	Sports Department, IEM Kolkata
Personal Counseling	20 th August 2019	258	BSH Department, IEM Kolkata
Workshop on AutoCAD Electrical	3 rd August, 2019	17	CADD Center - Laketown
Alumni mentoring session by Suhail Ghosh (virtual mode)	28th March, 2020	268	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Santosh Ghosh	4th April, 2020	258	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Debdoot Sheet	18th April, 2020	288	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Zinnia Chakraborty	25th April, 2020	275	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Ankita Chakraborty	2nd May, 2020	265	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Ankan Ray	9th May, 2020	285	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Sounak Lahiri	16th May, 2020	267	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Subhojoy Dey	23rd May, 2020	278	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Riturarna Basak	30th May, 2020	289	Alumni Cell, IEM, Kolkata
Alumni mentoring session by MD Sakhil	6th June, 2020	298	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Subham Kumar	13th June, 2020	279	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Ria Bhattercherjee	20th June, 2020	120	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Nirban Mandal	27th June, 2020	139	Alumni Cell, IEM, Kolkata

Alumni mentoring session by Sourav Tabrewal	4th June, 2020	145	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Vikram Kumar Samanta	11th June, 2020	156	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Sandipan Das	18th June, 2020	165	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Debdoot Basu	25th June, 2020	178	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Duman Das	4th July, 2020	179	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Sumanika Saha	11th July, 2020	187	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Ria Bandhopadhya	18th July, 2020	192	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Arka Majumder	25th July, 2020	195	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Chayan Bandhopadhya	5th September, 2020	199	Alumni Cell, IEM, Kolkata
Alumni mentoring session by Akanistha Baneerjee	12th September, 2020	187	Alumni Cell, IEM, Kolkata

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

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counseling activities	Number of students who have passed in the competitive exam	Number of students placed
2019-2020	Aptitude class	120	120	36	45
2019-2020	Employment Enhancement Class	120	120	36	45
2019-2020	Generic Career counseling	45	120	45	15
2019-2020	Employment Enhancement Class	50	50	15	26
2019-	Soft Skill development,	180	200	98	148

2020	Pre-Placement training, Aptitude				
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		No. of grievances redressed		Average number of days for grievance redressal	
2		2		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
Genpact, Jaro Education, Concentrix, Decathlon, TCS, British Telecom, Wipro, SKS Group, Amazon (for BBA Dept.)	40	40	PWC	22	11
BYJU'S THINK & LEARN	20	04	S & P GLOBAL PVT LTD	01	01
KEYENCE CORPORATION	38	01	TATA AIA	01	01
ITC LTD	22	01	OYO	25	01
BERGER PAINTS	05	01	DELTA	06	02
ASIAN PAINTS	10	01	DALMIA CEMENTS INDIA PVT LTD	01	01
IDFC FIRST BANK	24	11	APOLLO GLENEGALES HOSPITAL	01	01
KOTAK LIFE INSURANCE	06	02	ISOEH	4	1
HDFC BANK	30	15	Kesowa	6	3
TORERO CORPORATION	16	01			
ERNST & YOUNG	24	03			
EXTRAMARKS PVT LTD	12	05			
ASHIRWAD MICRO FINANCE	06	02			
ACASIA GLOBAL CONSULTING LLP	05	02			
CANARA HSBC	02	02			

LIFE INSURANCE					
GINESYS	06	02			
EEPOK SOLUTIONS	08	01			
EDUKYU.COM	03	02			
MCNORE	18	06			
VMART	10	02			
HYGENIC RESCEARCH PVT LTD	28	01			
BAJAJ ALLIANZ LIFE INSURANCE CO. LTD.	06	03			
ASTHA INSURANCE	10	02			
AB POLYPACKS PVT LTD	15	01			
RDC CONCRETE	03	01			
TCS DIGITAL	50	11			
ABZOOBA	20	1			
ARW	35	9			
COGNIZANT	246	159			
INFOSYS	150	76			
INFOSYS SES	210	32			
TCS NINJA	246	171			
WIPRO	128	75			
INFOSYS PP	55	5			
ALUMNUS	47	5			
IBM	17	2			
KREETI	10	1			
REBACA	24	4			
REBACA PPP	16	3			
NRI	68	8			

FUSION CHARTS	28	1			
GREYB	37	6			
ERNST & YOUNG	39	3			
5.2.2 Student progression to higher education in percentage during the year					
Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019-2020	5	Institute of Engineering & Management, Kolkata (B.Tech)	Electrical Engineering	IISc Bangalore	M.Tech
				IIT Kharagpur	
				IIT Roorke	
				IIT Delhi	
				IEST Shibpur	
2019-2020	2	Institute of Engineering & Management, Kolkata (B.Tech)	Mechanical Engineering	The University of Western Australia	Master of Professional Engineering specialisation in Mechanical Engineering, 2020-21
				University of Waterloo, Canada	MS in Mechanical Engineering, 2019-20
2019-2020	18	Institute of Engineering & Management, Kolkata (B.Tech)	Information Technology	IIM Kashipur	MBA, M.Tech, MS
				IIT Bangalore	
				SP Jain	
				Universitat des Saarlandes	
				Indian Institute of Science	
				New Jersey Institute of Technology	
				NEOMA Business School	
				Purdue University	
NMIMS					
				XLRI Jamshedpur	

				Arizona State University	
				IIT Guwahati	
				CMU	
				IIT Kharagpur	
				XLRI Jamshedpur	
				University of Florida	
				University of Dhaka	
				Budge Budge Institute of Technology	
2019-2020	4	Institute of Engineering & Management, Kolkata (BBA)	BBA	Nirma University	MBA, PGDM
				IEM	
				Techno India	
				Institute of Finance and International Management	
2019-2020	02	Institute of Engineering & Management, Kolkata (MBA/PGDM)	Management	University of Edinburgh; University of Ireland	International Business
2019-2020	5	Institute of Engineering & Management, Kolkata (B.Tech)	Electrical & Electronics Engineering Department (EEE)	The University of North Carolina, Charlotte	Master of Science (MS)
				The Graduate School at Louisiana State University, USA	Master of Science in EE
				IIT Kanpur	Direct PhD. In Power Engineering (EE)
				Birla Institute of Technology & Science and ceramic technology.	M.E in Communication System
				Government college of engineering and ceramic technology, Kolkata	M.Tech
2019-2020	46	Institute of Engineering & Management, Kolkata (B.Tech)	Computer Science and Engineering	IIM , Kolkata	MBA
				IMT, Dubai	

				International Management Institute, New Delhi		
				IIM Indore		
				Jadavpur University	M.Tech/M.E	
				IEST, Shibpur		
				ISI, Dhanbad		
				IIT, Kharagpur		
				NIT, Durgapur		
				IIT, Kanpur		
				IIT, Roorkee		
				IISc, Bangalore		
				Duke University		M.S
				UCA Santa Barbara		
				University of Southern California		
				Yale U, Stanford University		
2019-2020	20	Institute of Engineering & Management, Kolkata (B.Tech)	Electronics and Communication Engineering	NIA,Pune	MS, M.Tech., MBA	
				IIT Hyderabad		
				Jadavpur University		
				South California University		
				NIT, Warangal		
				IEST ,Shibpur		
VIT, Vellore						

				SRM University, Chennai	
				IIT Bhubaneswar	
				IIT Kharagpur	
				University of Maryland	
				IIT Kanpur	
				IIT Kharagpur	
				North Carolina State University, Raleigh	
				IIM Ranchi	
				IISC Bangalore	
				IEST, Shibpur	
				North Carolina State University, Raleigh Queen mary	
				University of London	
				NIT Surat	
				NIT Allahabad	
				NIT Calicut	
				NIT Surathkal	
				IIT Kanpur	
				NIT Nagpur	

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	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	Nil	Nil
SET	Nil	Nil
SLET	Nil	Nil
GATE	74	EE20S56050427, EE20S56048351, EE20S56052437, EE20S56051314, EE20S56048311, EE20S56052114, EE20S56050403, EE20S56052596,

		EE20S56052174, EE20S56054127, EE20S56050460, EE20S56049248, EE20S56049102, EE20S56049120, EE20S56050215, EE20S56047145, EE20S56047215, EE20S56052112, EE20S56049374, EE20S56052437, EE20S56048445, EE20S56047082, EE20S56052466, EE20S56050312, EE20S56051059, EE20S56049271, EE20S56050113, EE20S56049113, EE20S56052276, ME20S16052138, D278G15, ME20S16049029, 12016002007014, ME20S26048284, 12016002007050, 12016002007038, ME20S26053002, 12016002007042, ME20S26051364, ME20S16056083, 12016002007037, ME/16/7007, CS20S66043148, CS20S66052710, CS20S66052439, CS20S66052274, CS20S66051018, CS20S66050406, CS20S66050217, CS20S66048204 CS20S66047089 CS20S66051271 CS20S66056048 CS20S66049545 CS20S66056097 CS20S66053245
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		CS20S66049127 CS20S66048155 CS20S66043034 CS20S66057077 CS20S66051447 CS20S66057138 CS20S66048513 CS20S66047116 CS20S66052054 CS20S66048248, EC20S46052519 EC20S46053097 EC20S46052416 EC20S46049233 EC20S46050307 EC20S46048496 EC20S46049118 EC20S46052524
GMAT	Nil	Nil
CAT	25	9066820, 9054342, 9026736, 9270142, 9053932, 9173304, 9054656, 9133800, 9148270 , 9086875 9160586 9004091 9054982 9044506 9042878 9013894 9084434 9224704 9104520 9022591, 9081550 9114952 9234554 9008567 9189766

GRE	6	3406380, 6378413, 5NE9G575, 5413474 5867594 5980220
TOEFL	4	2297 6081 9064 7619, 233887 233822 212839
Civil Services	Nil	Nil
State Government Services	01	Saikat Mukherjee (MBA)
Any Other	IELTS(1),XAT(1),SSC CGL(1), TISSNET, SSC TECH SHORTLISTING FOR SSB(1)	IELTS (CANDIDATE NO)- 198760, XAT-XAT2102971, TISSNET - C20041621, SSC CGL-4410073322, SSC TECH-14404060078, Spandita & Arkajit (PGDM)

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

Activity	Level	Participants
IEM Annual Sports	Inter College Level	350
IEM UEM Marathon	National Level	1500
UEM IEM Cyclothon	National Level	786
Ashram Cup	Inter College Level	120
Flick	Institutional Level	60
Cultural activities in IEMRE	Inter College Level	187
Cultural activities in IEMPOWER	Inter College Level	187
Annual Football Tournament	Inter College Level	127
Annual Cricket Tournament	Inter College Level	85
Annual Table Tennis Tournament	Inter College Level	72
Management Fest'SRJAN	Inter-College Level	187
Business Simulation Challenge	Inter-College Level	187
LENSFLARE: Photography Competition	Inter-College level	148
BIOSCOPE: Short Film Competition	Inter-College Level	126
Annual Graffiti & Logo Making Contest	Inter-College Level	78

Inter Department Quiz Competition	Inter Department Level	87
Food Mart and Mini Mart	Inter College Level	180
B Plan Competition	Inter College Level	23
1 Dollar Venture	Intra College Level	12
MUN - MODEL UNITED NATION	National Level	58
TRUST & GUESS	Inter College Level	32
LUKKAD - STREET PLAY	Inter College Level	21
TRADE BATE - DEBATE COMPETITION	Inter College Level	30
LENS FLARE - PHOTOGRAPHY COMPETITION	Intra College Level	25
GRAFFITI COMPETITION	Intra College Level	48
AD-MAKING COMPETITION	Inter College Level	38
ELEVATOR SPEECH	Inter College Level	47
FILMOLOGY - SHORT FILM COMPETITION	Inter College Level	34
Techronista – Seminar & Workshop	Inter College Level	182
Banomahotsav (Tree plantation by students of BT)	Inter College Level	425
IEM In Film Festival	Inter College Level	256
Industrial Visit (ME)	Inter College Level	124
Workshop on Machine learning (External Expert)	Inter College Level	187
3D Printing Olympiad	Intra College Level	264
Heat load Workshop	Inter College Level	154
Orientation Program	Inter College Level	264
Int. Conference on Current Trends in Material Science & Engineering (CTMSE 19)	International Level	174
Invited talk on Data Analytics by IEM-CSI	Inter College Level	168
HVAC project site visit	Inter College Level	58
First Year Student Induction Programme	Inter College Level	158
Formation of CWC for the Academic Session 2019-2020 – IEI (ME)	Inter College Level	178
Seminar on Recent Trends of Renewable Energy	Inter College Level	148
International Editor's Meet	International Level	156
International Conference on English learning and Technical skills	International Level	248
Virtual Industrial Tour organized	Intra College Level	236

by Computer Science Dept.		
I am special – Social awareness Program	Inter College Level	176
Inauguration of IEM Lion’s Club	National Level	87
Invited Talk organized by Computer Science Dept.	Inter College Level	209
Industrial Visit organized by Electronics Dept.	Inter College Level	158
Workshop on Development of Artificial Intelligence Automation System	Inter College Level	242
Corporate Academia Sambandh	Inter College Level	132
Workshop for Competitive Coding	Inter College Level	225
TAAPMAAN	Intra College Level	134
Workshop on IOT	Inter College Level	153
Formalization of Ishare Student project grant (ISPG)	Inter College Level	148
Workshop on 3D Printing and Scanning (Reverse Engineering)	Inter College Level	157
Seminar on Importance of Foreign Language in Hospitality Industry	Inter College Level	162
Autocad Workshop of EE drawing	Inter College Level	68
Entrepreneurship Boot Camp	Inter College Level	147
Workshop on Grooming & Make-up	Inter College Level	264
Technical Event 2019 – IIW	Inter College Level	162
Workshop on Biotechnology	Inter College Level	142
International Conference – Biospectrum	International Level	248
Virtual Industrial Tour organized by Computer Science Dept.	Inter College Level	86
Technical Talk from ISHARE	Inter College Level	125
Workshop on Machine learning Python	Inter College Level	178
Essay competition (BSH)	Inter College Level	118
ACM Event Seminar	Inter College Level	132
IEM – Book Fair & Literary Festival	Inter College Level	142
Debate competition (BSH)	Inter College Level	64
Invited talk on Deep Data Analytics by IEM-CSI	Inter College Level	147
Independence Day celebration	Inter College Level	172
International Olympiad on pure and applied chemistry (IOPAC)	International Level	62

Coding competition (DeCipher)	Inter College Level	52
Workshop on Food safety & Hygiene	Inter College Level	58
International Ethical Hacking Conference – eHaCON 19	International Level	178
Innovative Model Making Competition organized by Electronics (Microstrip patch antenna design) Dept.	Inter College Level	148
Workshop on Ethical Hacking	Inter College Level	156
CSI Event Seminar	Inter College Level	248
Workshop on MATLAB for Engineering Applications	Inter College Level	236
Workshop for Competitive Coding	Inter College Level	176
Drama Fest	Inter College Level	87
Industrial Visit organized by Biotechnology Dept.	Inter College Level	209
Business Plan Competition (CS/CA)	Inter College Level	158
International Conference on Electronics, Materials Engineering & Nano-Technology- IEMENTech 19	International Level	242
IEM-IEI Technological Extraveganza – ENGINIOUS 19	National Level	132
Industrial Visit organized by Computer Science Dept.	Intra College Level	225
Workshop on Data Mining with R	Inter College Level	134
Painting competition (BSH)	Inter College Level	153
Teachers Day Celebration	Inter College Level	148
International Conference on 'Disruptive Change and Organizational Development	International Level	157
Invited Talk organized by Computer Science Dept.	Inter College Level	162
Global AIC – Coding Competition	Inter College Level	68
Bienvenue- Freshers' Welcome (Batch 19)	Inter College Level	147
Workshop on Research Paper Writing	Inter College Level	264
International English Olympiad (IEMIEO)	International Level	162
UEM-Algorithm Olympiad	Inter College Level	142

Technical Poster competition organized by Civil Dept.	Inter College Level	248
Global AIC – International Webinar	International Level	86
Group Discussion (BSH)	Inter College Level	175
Global Artificial Intelligence Congress (Global AIC)	National Level	187
IEM- International Electronics Olympiad	International Level	148
Innovative Project Competition	Inter College Level	126
Technical Poster competition organized by Biotechnology Dept.	Inter College Level	78
Invited Talk organized by Computer Science Dept.	Inter College Level	87
Eye Checkup Camp in association with Titan Eye+	Intra College Level	180
Workshop on machine and Deep Learning with Python	Inter College Level	23
IEM – ASME Annual Tech Fest (ASME Efx)	Inter College Level	12
International Physics Olympiad (IEMPHYIAD)	International Level	58
International Students’ Congress on Recent Innovations in Energy Mgmt & Renewable Energy	International Level	32
Refcold poster competition	Inter College Level	21
Workshop on Food safety & Hygiene	Inter College Level	30
UEM Summer Camp on Chemistry	Inter College Level	25
Vishwakarma Puja	Inter College Level	48
International Conference on Chemical & Environmental Sciences (ICCES 19)	International Level	38
MDP – GST	Inter College Level	47
ANSIS Workshop	Inter College Level	34
62nd International HR Congress on impact of emerging technologies on employment.	International Level	182
IEM Data Science Olympiad by IEM-CSI	Inter College Level	425
International Conference on Computational Intelligence and Information Retrieval(CIIR)	International Level	256
Student Development Programme (SDP)	Inter College Level	124

Class room decoration	Inter College Level	187
Research Papers Exhibition (CS/CA)	Inter College Level	264
Innovative Model Making Competition organized by Mathematics Dept.	Inter College Level	154
Technical Poster competition organized by Electrical Dept.	Inter College Level	264
Technical Poster competition organized by Electrical Dept.	Inter College Level	174
Technical Poster competition organized by Mechanical Dept.	Inter College Level	168
Technical Poster competition organized by Computer Science Dept.	Inter College Level	58
Virtual Industrial Tour organized by Electrical Dept.	Inter College Level	158
Agomoni	Inter College Level	178
Innovative Model Making Competition organized by Computer Science Dept.	Inter College Level	148
Technical Poster competition organized by Electronics Dept.	Inter College Level	156
Workshop for Competitive Coding	Inter College Level	248
Workshop on IOT and automation	Inter College Level	236
Industrial Tour	Inter College Level	176
Invited Talk organized by EEE Dept.	Inter College Level	87
Wall Bulletin & Wall Magazine Competition	Inter College Level	209
Ubiquitous Computing, Electronics & Mobile Communication Conference (IEEE UEMCON 19)	International Level	158
SMART Maker Fair – Innovacion Global	International Level	242
Virtual Industrial Tour organized by Computer Science Dept.	Inter College Level	132
UEM-English Olympiad	International Level	225
Bijoya Sammilani	Inter College Level	134
Information Technology, Electronics and Mobile Communication Conference (IEEE IEMCON 19)	International Level	153
Virtual Industrial Tour organized	Inter College Level	148

by Computer Science Dept.		
Invited Talk organized by Civil Dept.	Inter College Level	157
Quiz Competition (BT)	Inter College Level	162
Music in Management	Inter College Level	68
SMART MAKER FAIR – Global Innovacion	International Level	147
IEMPACT – Global	Inter College Level	264
Workshop on Data Mining with SAS	Inter College Level	162
Seminar on Substation Automation (SAS)	Inter College Level	142
Competition on ‘Be a Food Entrepreneur!’	Intra College Level	248
Industrial Visit organized by Computer Science Dept.	Inter College Level	86
IEEE Event Seminar	Intra College Level	175
International Mathematics Olympiad – IEMATICS	International Level	125
Technical Poster competition organized by Law Dept.	Intra College Level	178
Invited Talk organized by Computer Science Dept.	Inter College Level	118
Basic Entrepreneurship Workshop	Inter College Level	132
Virtual Industrial Tour organized by Computer Science Dept.	Inter College Level	142
Innovative Model Making Competition organized by Mechanical Dept.	Inter College Level	64
Workshop on Patent Drafting	Inter College Level	147
Innovative Model Making Competition organized by Chemistry Dept.	Inter College Level	172
Innovative Model Making Competition- organized by Physics Dept.	Inter College Level	62
A visit to SOS Children House	Intra College Level	52
Distinguished Lecture	Inter College Level	58
Invited lecture on Sustainable energy in association with SESI	Intra College Level	178
International Conference on Condensed Matter Physics – (IEMPHYS – 19)	International Level	148
National student design competition (NSDC)	Intra College Level	156
Virtual Industrial Tour organized	Inter College Level	248

by EEE Dept.		
Debate Competition	Inter College Level	236
Smart Maker Faire	Intra College Level	176
Symposium on Welding (Seminar and Technical Talks)	Intra College Level	87
International Conference on 'Industrial Electronics, Mechatronics, electrical & mechanical power'- IEMPOWER 19	International Level	209
Coding Competitions	Inter College Level	158
Moot Court Competition	Inter College Level	242
Student design challenge, RACON	Inter College Level	132
Homecoming – IEM Annual Alumni Meet	Inter College Level	225
Educational Excursion Tour- (BHM Students)	Intra College Level	134
Departmental Journal Publication (CS)	Inter College Level	153
HVAC quiz- A Quest Participation	Intra College Level	148
Workshop on solar electronics with association with SESI	Inter College Level	148
International Conference on Computational Intelligence in Pattern Recognition (CIPR)	International Level	157
International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS)	International Level	162
Computing and Communication Workshop and Conference (CCWC 20)	International Level	68
Workshop on CAPSTONE Business Simulation	Inter College Level	147
International Olympiad on pure and applied chemistry (IOPAC)	International Level	264
Management Development Programme – Retail Marketing	Inter College Level	162
Innovative Model Making Competition organized by Electrical Dept.	Inter College Level	142
Technical talk on “Grid integration of renewable energy” in collaboration with SESI	Inter College Level	248

Technical Poster competition organized by Mathematics Dept.	Inter College Level	86
UEM-Mathematics Olympiad	Inter College Level	175
Digital Marketing Workshop	Inter College Level	62
Dept. CSR Initiative/SMILE Initiative	Inter College Level	52
IEM Annual Cultural Festival – IEMPACT	Inter College Level	58
Invited Talk organized by EEE Dept.	Inter College Level	178
The Annual Techno-Management Fest of IEM – INNOVACION	Inter College Level	148
Invited talk on Natural Language Processing by IEM-CSI	Inter College Level	156
Invited Talk Organized by Electronics Dept.	Inter College Level	248
Republic day Celebration	Inter College Level	236
Saraswati Puja Celebration	Inter College Level	176
Basketball Competition	Inter College Level	87
Annual Athletic meet	Inter College Level	209
UEM Cultural Fest	Inter College Level	158
Ecstasia: Annual Cultural Fest	Inter College Level	242
Annual Sports Meet	Inter College Level	132
WELDINDIA 2020 (5th International Congress & 13th Welding Technology Exhibition)	Intra College Level	225
Technical Poster competition organized by Chemistry Dept.	Inter College Level	157
International Conference on Mathematical sciences & computing	International Level	162
IEM Convention	Inter College Level	68
CSR in association with Dhatri Foundation	Inter College Level	147
UEM Tech Fest	Inter College Level	264
Urecon: Annual Techno-Management Fest	Inter College Level	162
Industrial Visit organized by Civil Dept.	Inter College Level	142
National Mgmt Day celebration – Seminar on Leadership in the Age of Disruption	National Level	248
Workshop on application of AI in design of renewable energy systems	Inter College Level	86
International English Olympiad	International Level	175

(IEMIEO)		
IEM Voice – 5 days Language Festival	International Level	148
Technical Talk on Sensor and Transducers in Real Life Engineering Application	Inter College Level	126
Invited Talk Organized by Electronics Dept.	Inter College Level	78
Workshop on Wine Tasting & Food Pairing	Inter College Level	87
Technical Poster competition organized by Physics Dept.	Inter College Level	180
Technical Poster competition organized by Civil Dept.	Inter College Level	23
Workshop on Flower Arrangement	Inter College Level	12
Mgmt Development Programme – HR	Inter College Level	58
Carom and Billiards Championship	Intra College Level	32
Chess and mini golf Championship	Intra College Level	21
FDP(Faculty Development Program)	Inter College Level	30
International Student Conference – Spectrum 2020	International Level	25
Kabaddi Championship	Inter College Level	48
Industrial Visit organized by Electrical Dept.	Inter College Level	38
Women’s Day Celebration	Inter College Level	47
Optronix: International Conference on Opto-Electronics and Applied Optics	International Level	34
CSR in association with Humane Society International	Intra College Level	182
Seminar on Leadership & Team Building in Management Pedagogy	Inter College Level	147
Management Development Programme – Logistics	Inter College Level	264
Soft Skill Development Seminar	Inter College Level	162
Seminar on Deep Neural Based Computer Vision Application	Inter College Level	142
International Conference on Intelligent Energy Management, Electric Power, Robotics and Automation –IEMERA -19	International Level	248

Invited talk on Quantum Computing by IEM-CSI	Inter College Level	86
Technical Poster competition organized by Biotechnology Dept.	Inter College Level	175
Quiz Competition (BT)	Inter College Level	62
International Creative writing	International Level	52
Management Fest – SRJAN 20	Inter College Level	58
Poster Competition on Budget, 2020	Inter College Level	178
Poster Competition on Marketing	Inter College Level	178
IEM- International Electronics Olympiad	International Level	148
International Mathematics Olympiad (IEMATICS)	International Level	156
Business Case Study Competition	Inter College Level	248
Invited talk on Network Security by IEM-CSI	Inter College Level	236
National Symposium on Sustainable Waste Management (NSSWM) 20	National Level	176
International Poetry Congress – IEM Poetica	International Level	87
Kabi Pranam	Inter College Level	209
Internship Programme (Civil)	Inter College Level	158
CSR - Street Animals and Environment Welfare	Inter College Level	242

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/ International	Sports	Cultural	Student ID number	Name of the student
2019	Innovation Award by Indian Chamber of Commerce in association with CDAC and Nasscom	National		Cultural	10400216060 , 10400216025	Sekhar Sonthalia, Trideep Mandal
2019	Awarded with Gold Medal in World Invention Innovation	International		Cultural	10400216055	Simran Saha

	Contest (WIC) in Korea					
2019	Received Special Award in honor and recognition of most exceptional creativity and innovative ideas displayed	International		Cultural	10400216055	Simran Saha
2019	Awarded with certificate of Merit for winning prize in special category 'Waste, Water & Energy' in 4th National Social Enterprise Idea Challenge	National		Cultural	10400216055	Simran Saha
2019	Got best paper award in National Symposium on Sustainable Waste Management	International		Cultural	10400216055	Simran Saha
2019	Innovative Project Award by Fire and Security Association of India in Mumbai	National		Cultural	10400216055	Simran Saha
2019	Awarded with certificate of Merit for securing 3rd place in the event Perpetua organized by Science Club of Heritage Utsav	National		Cultural	10400216055	Simran Saha
2019	Awarded with certificate of Merit for securing 2nd place in the event Innovation Challenge	National		Cultural	10400216055	Simran Saha

	organized by IEEE HITK & GEEKS UNITED in Heritage Utsav					
2019	Certificate of Excellence in Business Simulation Challenge in Model United Nation	National		Cultural	10400218101	Diptashree Paul
2019	Won the 2nd place in TCS EngiNX 2019	National		Cultural	10400216025	Trideep Mandal
2019	Cyber Secure Conclave 2019 Project Presentation Winner Prize	National		Cultural	10400216118	INDRANIL ROY
2019	IEMPACT	National	Sports		12016002004001	Abheek Das
2019	IEM-UEM Marathon	National	Sports		12016002003155	Soumyamoy Bose
2019	IEM-UEM Marathon	National	Sports		12017002003143	Annu Niraj
2020	Best Actor (Female) Award	National		Cultural	12018002003174	Aritra Mukherji
2020	Second Prize in Eastern Classical Dance national	National		Cultural	12018002003169	Neha Talukder
2020	Winner of photocontest by FrstHand	National		Cultural		Soumadri Chowdhury

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

A Student Council named as Student's Gymkhana is set with its own objectives with the guidance of the institute. A faculty, Prof. Sanghamitra Poddar (H.O.D Student Affairs & Alumni Relations), leads the Council with a final year student being the General Secretary and holding various other posts. Students are encouraged to be a part of the decision-making process supporting democratic form of governance. This is achieved by

- Forming a student council with class representatives
- Representatives of all student related activities

- Involving class representatives and batch representatives in the meetings held by heads of the departments with the class teachers

Moreover, in all decision-making bodies the student representatives hold a good position and also actively participate with their opinion. In IQAC cell the student members also play a pivotal role. In student grievance redressal cell, anti-ragging cell, library committee, syllabus committee, Internal Complaints Committee (ICC) all decisions are decided in their presence. The Institute holds national and international conferences where participation of students is praiseworthy. Student representatives actively participate in various activities. They help in coordinating all the events related to academics and other co-curricular (conducting & participating in various course related workshops; Seminars & Conferences) & extra-curricular activities (organising fest, participating in sports, business plan contest; photography contest; various short film making contest etc), as per the Directives of teaching faculty. They do lot of academic administrative work by taking the help of other students. They also motivate other students to take part in the activities conducted by the Institute. They work as a medium between faculty and students.

5.4 Alumni Engagement

5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

A registered Alumni association is present. Alumni meetings are continuously arranged, annual alumni meet organised to discuss and enhance wholesome education and development. This year the meet was held on 20th December, 2019 in Kolkata and on 22nd February, 2020 at Bangalore.

Alumni association

(Duly formed and registered)

Established on 14th February 2017, Institute of Engineering of Management Alumni Association creates and maintains a life-long connection between the Institute and its Alumni. In collaboration with extremely dedicated volunteers, the Alumni Association works to connect alumni, support students and build an unforgettable Institute experience through a diversity of events, programming and services.

Institute of Engineering and Management Alumni Association creates bonding between the Alumni and students in terms of mentoring, volunteering and advocacy which is vital to sustaining and growing the standards of the Institute. By facilitating relationships between students and alumni during various events, a deep connection is created between students, alumni and the Institute itself.

The mission of the Association is to foster strong bonds between alumni, students and the Institute to keep alumni informed and create a network enabling them to remain engaged with their alma mater and helps to shape their future through the Association's programmes and services.

Involvement of alumni

Developing an active and engaged alumni network empowers both the Institute and its graduates. Alumni Meet is an annual event which happens in the month of December every year. Feedbacks are taken from our Alumni and also they are asked to provide us the suggestions on our improvement areas. The Alumni Mentoring is done by requesting our passed out batches to share their experiences and journey on the specific fields they are presently working. They are also asked to guide our students on the corporate expectations. Students are engaged in various projects on which they also seek support and guidance from the Alumni members which gives a new rise to fresh thought and understanding. Alumni who are placed in companies in senior positions helps us to build a robust network of senior managers and successful entrepreneurs.

Methodology to connect with Alumni and its implementation

In the age of Digital Communication, the best and fastest way to connect and network is Social media. We have included more than 5000 students in our Facebook Closed Group Account - IEM School of Engineering and Management - Students and Alumni (<https://www.facebook.com/groups/120295321443207/?ref=share>). The group is used to showcase all important events that have been organized or upcoming events inviting the participation of our Alumni. The huge databases of students are updated on a regular basis to keep a track of our student's journey in the corporate world. It was celebrated in a grand way in presence of our students who have flown down from various parts of the world to attend this meet. Also the Alumni meet is the forum where we acknowledge and award the contribution and achievement of our Alumni.

5.4.2 No. of enrolled Alumni:4615

5.4.3 Alumni contribution during the year (in Rupees):73,20,000

5.4.4 Meetings/activities organized by Alumni Association:

The Institute has a registered alumni association. The alumni association organizes annual alumni meet known as "Homecoming" where almost 300-400 alumni from all over the world enthusiastically attend the program along with their family members.

- Several students are placed in different MNCs with the help of Institute alumni cell and also visiting lectures by eminent alumnus are arranged.
- Alumni are associated in designing and updating the curriculum through participation in IQAC meetings.
- Feedbacks continuous mentoring sessions on institute, academic, non-academic activities are provided by the alumni on regular basis.
- They also participate in different community development and society welfare programmes like the annual IEM marathon organized in association with C.R.Y.
- The alumni also provide scholarships/awards/prizes to the deserving students.
- The alumni association also sponsors different endowment lectures.

In the academic year of 2019-20 , two major Alumni Events were organized by the Alumni Association:

1. "HOMECOMING" - Alumni Meet 2020 was organized on 22nd February 2020, at Apotex Research Pvt Ltd (Back Gate No: 5) , behind Electronics Complex , Bangalore.
- 2."HOMECOMING" - the IEM Alumni Meet 2019, on 20th December 2019 was organized in the college premises IEM Engineering (Gurukul) Campus, Y- 12 Sector -V, Salt lake Electronics Complex, Kolkata - 700091.

In both the events there was an outstanding response from the alumni of IEM

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)

Institute has a mechanism for delegating authority and providing operation autonomy to all the various functionaries to work towards decentralized governance system.

1. Principal Level: The Governing body delegates all the academic and operational decisions based on policy to the Academic Council of the institute headed by the Principal in order to fulfil the vision and mission of the institute. Academic Council formulates common working procedures and entrusts the implementation with the faculty members.
2. Faculty Level: Faculty members are members of various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co-curricular and extracurricular activities. They are given authority to conduct industrial tours and to have tie up with industry experts and appointed as coordinator and convener for organizing

seminars/workshops/conferences/FDPs. For effective implementation and improvement of the institute, following committees are formed. Other units of the institute like sports, library, store etc. have operational autonomy under the guidance of the various committees/cells.

3. Student Level: Students are empowered to play an active role as a coordinator of co-curricular and extra-curricular activities, social service group coordinator.

4. Participative Management: The institute promotes a culture of participative management by involving the staff and students in various activities. All decisions of the institution are governed by board of management. Both students and faculties are allowed to give any suggestions to improve the excellence in any aspect of the Institute.

Strategic Level:

- The Director, Principal, Academic Co-coordinator and Staff members are involved in defining the policies and procedures, framing guidelines and rules regulations pertaining to admission, placement, discipline, grievance, counselling, training placement, library services etc. and effectively implementing the same to ensure smooth and systematic functioning of the institute.
- For the various programs to be conducted by the institute all the staff members will meet, discuss, share their opinion and plan for the event and form various committees involving students and coordinate with each other.
- Faculties and Staff members are also involved in deciding academic activities and examinations to be conducted by the college.

Operational level:

- The Director of the institution is the member secretary of the Governing body (GB). The GB gives suggestions and monitors the procurement, introduction of new programs and welfare activities.
- The Principal of the institution is responsible for academic, non-academic and administrative activities of the institution.
- On behalf of the institution, the Principal interacts and corresponds with AICTE, Govt. of West Bengal, UGC, Affiliating University, etc.,
- The budget is earmarked for staff members and also students to participate in various programmes organized.

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

Yes

IEMCRP at IEM, Kolkata (<https://www.iemcrp.com>) is the concept of Academic ERP which aims not only at achieving operational excellence in Institutions, but also make its stakeholders, the beneficiaries of the system. As Academic ERP concept provides number of options through which, an Institution can share the information stored with the parents and other stakeholders and make them feel to be a part of the Institution itself. It includes the number of modules, proved beneficial to achieve the operational and functional efficiencies, monitoring and optimizing the management processes & operations and enhancing coordination across the various departments in the Institution.

1. Admissions: This module makes admission process automated. It generates the report on the seats allotment by convener and its status like sliding of branches etc. Out of the students applied for seats under B Category merit list is prepared and offered them in the order of merit. Roll lists are also generated.
2. Academics Course Management: Creates course based on program, regulation, semester and branch. Faculty course mapping, academic calendar, teaching methodologies and elective settings are offered.
3. Class Management: It creates branch wise and student wise attendance. Time slots, timetables, section, sub section, open elective, student attendance, extra class, class suspension and lab swapping facilities are provided.
4. Student management: Students, re-joined students, readmitted students, substitute subjects, student ID

card and bulk updating options are provided

5. Examination and evaluation platform: The functionality for student examination registration for end semester and creating seating arrangement for students. It facilitates the nominal rolls, room and branch(s) wise on a date of examination for both internal/external. Provides the functionality for generation of admit card and internal marks entry by faculty.
6. HR Module: Provide functionality for creating holidays, various leaves, creating user and assign roles, reference data, service book, pending approvals, employee's shift, employee ID card and define workflow.
7. Accounts and Payroll: Various account related functionalities are created like payment status, part payment, ledger maintenance etc. payrolls can be created and the pay scales and payroll details can be revised according to dynamically changing DA time to time.
8. Learning Management Systems: To create assignments/ attach file with mathematical equations if required for the students along with indication of marks, description and deadline for submission. Select the students for assignment submission.

<https://www.iemcrp.com>

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	The Board of studies (BOS) at PG & UG levels were constituted with members from industry, expert faculties and students alumni. The meetings of the BOS are conducted at regular intervals. The ideas obtained from the various bodies are thoroughly discussed by the experts and forwarded to MAKAUT. The feedback collected from the students and alumni for curriculum and suggestions are placed in BOS meetings. Analysis of all collected feedback done on the employability and value-based education.
Teaching and Learning	The following are some of the innovative processes adopted by the institution towards TLP (Teaching and Learning Programme) <ul style="list-style-type: none"> • E-Learning solution of automatic recording and distribution of classroom lectures through IEMLEARNING. • Creation of departmental advisory board for advising academic materials. • Regular FDPs are conducted to keep the teachers updated about the recent trends. • Due to the on-going pandemic situation, online theory and laboratory classes are held • Live lecture programmes. • Internships. • Rubrics to assess the level of student projects. • Animation/Power point/Smart Classroom facilities. • To motivate and help students to do minor educational projects in related area/topics. • Conduct External and internal academic audits on a regular basis. • Workshop by alumni on current trend/technology. • Project based learning (self-study).

	<ul style="list-style-type: none"> • Progression of students is continuously monitored. • Inter departmental student projects. • Funding for multidisciplinary projects • Awards for best student projects. • Financial support to students for participating in competitions and model preparation.
Examination and Evaluation	<p>Institute has adopted reforms to maintain the quality of teaching and learning process and improving academic standards.</p> <ul style="list-style-type: none"> • The college conducts regular orientation and awareness programmes for the benefit of the students. • The institution continues to adopt improved examination process. • Examination reform – The Course instructor /Coordinator prepares the question paper in the respective courses. External examiners are invited to review the quality and standards of the questions and give their opinion and corrections. <p>Further evaluation of scripts with respect to those courses is also done by respective course instructor along with moderation by external examiners. The students are provided with an opportunity to access their answer script of each course. This process happens immediately after the announcement of midterm results. A student aggrieved by the marks awarded to him/her can appeal for re-evaluation. All the copies (internal) are shown to the students signed by them.</p> <ul style="list-style-type: none"> • For each department 2 midterm internal examinations (laboratory VIVA and theory) and one end semester examination are conducted. • 2 midterm examinations are conducted by the concerned department and question papers are set by internal teachers, moderators and external subject experts. • Assignments and seminars are part of internal examination conducted by institute’s examination cell. • Regular tutorial and remedial classes are conducted. • Continuous evaluation is carried out through regular tests assignments, projects.
Research and Development	<p>The Institute has a R&D cell and HRDC cell to facilitate, monitor and encourage the research activities. It meets regularly to discuss various plans top remote research and motivate the faculty for academic advancement.</p> <ul style="list-style-type: none"> • The committee keeps track of different government schemes and schemes other agencies like CSIR, DST, DBT, DRDO and many more. • Creation of inter and multidisciplinary research teams. • Organization of conferences/seminars/workshops/training programmes. • Sponsoring faculty members for attending different conferences /seminars/workshops. • Establishment of research forum. • Encouraging faculty towards getting projects. • Establishment of department research committees. • Faculties are rewarded for publication in reputed journals and book publication. • Sabbatical leave is provided to faculties for pursuing higher studies.

	<ul style="list-style-type: none"> • College provides registration fees and travel cost for attending reputed National/International conferences. • Subscription to both printed and online journals. • Seed money provided to projects. • Appointment of Research Assistants. • Many research papers are published by students and the registration fees of the conferences are totally reimbursed by the institute. • Dedicated cubicles in laboratories for research works. • College is organizing various Scopus indexed International conferences to keep an environment of research among the student and faculty members. • College is publishing 13 quarterly research journals with good international reputed faculties in the editorial board and have good peer review system.
Library, ICT and Physical Infrastructure / Instrumentation	<p>Institute Central Library was established with nearly 70 Thousand books and 3510 books were added during 2019-2020 period and 34 print journal shaving e-learning resources with 350 e-Books and 2500 e-journals were added. For conducting online classes and exams during this pandemic situation the institute has purchased many data cards, laptops, cameras and audio & visual kits for smooth running of teaching-learning process. Each department is provided with computer and internet facilities. The institute has well established classrooms, seminar halls and fully equipped laboratories. Other amenities such as canteen, medical room, bank, hostels, recreation clubs, basketball court, indoor auditorium and common halls are available. Each department of the college has well established laboratories with modern equipments. The institute has well-built gymnasium for all the students of the campus.</p>
Human Resource Management	<p>Delegations of responsibility – some of the key responsibility areas are identified and delegated at different levels – office function, Principal, HOD/Asst. HOD.</p> <ul style="list-style-type: none"> • Academic Council – All academic matter (including BOS functions) through academic council • Internal Quality Assessment Cell (IQAC) • Participatory Management –Subcommittee for different functional activities comprises representatives of teachers, nonteaching staff and students. It includes the involvement of the staff for organizing different programmes of the college. • Staff Orientation Programmes are organized by the college on regular basis. • Performance appraisal system is practiced. • Promotion policy – College follows the promotion policies of the Higher Education Department. In addition, the institute also has introduced seniority based and performance-based promotions. • Policy for compensation –College extends the following benefits to the staff members. Such as: <ul style="list-style-type: none"> ➤ Provident fund – Each member of the staff shall subscribe to duly constituted College Provident Fund in accordance with statutory rule.

	<ul style="list-style-type: none"> ➤ Gratuity – College pays Gratuity to the staff members. ➤ Performance Recognition - The College gives performance recognition by way of monetary incentives, like, sponsoring registration fees for the faculty members whose paper have been accepted at Seminars and Conferences (including International Conferences) providing the Ph.D registration fees to the candidates by felicitating the retired staff members and recognising contributing efforts of those, with at least 2 years of service.
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Institute has interaction and collaboration with reputed research organizations, industries and institutions in India and abroad. • It has more than 7 MOUs and has several interdisciplinary and multidisciplinary projects in collaboration with other reputed organizations. • Institute has entered into student and faculty exchange programmes in collaboration with Foreign Universities/Institutions. • The institute has MOU with CII(Confederation of Indian Industry) and participates in all industry academia outreach and exchange programs. The students and faculty members are sent to regular industry visits. • Many faculty members are involved with different consultancy programs. This increases the institute industry interaction. • Alumni of the institute working in different reputed government/private/MNCs/academia are regularly invited to address the students.
Admission of Students	<p>The Institute has a well-organized and transparent admission system. All the admissions are based on merit in accordance with the rank obtained.</p> <ul style="list-style-type: none"> • For B.Tech. admissions, the rank obtained by the students in the WBJEE or rank obtained in all India level entrance examinations JEE (Main). • For M.Tech. admissions students are admitted based on their ranking in entrance exams like GATE, WBPGET, etc. • For BBA, BCA, MBA, M.Sc. and PGDM students are admitted based on their last qualified merit.
6.2.2 : Implementation of e-governance in areas of operations:	
Planning and Development	<ul style="list-style-type: none"> • Audio-visual system in all classrooms • Each department is provided with computers having internet facility. • The institute Central Library has adequate no. of books, journal, computer with internet facility and provision for digital library. • Daily duty report is collected from every faculty to keep a track of the day to day activities of the faculties • During pandemic situation, faculties were given permission for work from home provided they attend the online morning and afternoon meetings to record their attendance. The meetings were conducted using “Go To Webinar” platform. • 24X7 library facilities provided by the institute for the

	students and faculties.
Administration	<ul style="list-style-type: none"> • Internet access to all machines and 2 GBPS leased line. • WiFi facility throughout the institute. • Leave and attendance of faculties can be tracked through the IEMCRP software • Biometric face recognition systems are installed to record the attendance of the faculties • Online feedback system is available to record the student feedback after every class • Administrative information is digitalised and all the departments of the institute are provided with computer data cable network facility. • CCTV surveillance system for central library and all the existing facilities.
Finance and Accounts	<ul style="list-style-type: none"> • Tally System for maintaining the accounts in accounts department. • CYNYSYS for the tax calculation in accounts department.
Student Admission and Support	<ul style="list-style-type: none"> • Internet facility is provided in student hostel • Video lectures are available in the Gymkhana TV based on course materials available for the benefit of the students. • E-Learning resources were created using E-Journals and E-books. The library provides E-Journal facilities. • Admission and examination procedure are computerised
Examination	<ul style="list-style-type: none"> • Execution of Class test and marking scheme both are possible in the IEMCRP software. • The online theory examinations were conducted for the internal mid-semester exams and the autonomous batch of our institute. It was conducted flawlessly under continuous online video and audio invigilation where they had to sit for 3 hours written exams of subjective and mathematical problems. After finishing their subjective examination of 100 marks they had to scan the answer sheets and upload it in the virtual classrooms to the invigilator.

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 (in Rupees)
2019	Amartya Mukherjee	NCCMP	Army Institute of Management	2800

2019	Sanjoy Chatterjee	IEMCON 2019	IEEE	5500
2019	Prabir Kumar Das	NCCMP	Army Institute of Management	2800
2019	Ruchira Mukherjee	IEMENTECH	IEEE	5000
2019	Ratna Chakraborty	IEMENTECH	IEEE	6000
2019	Mili Sarkar	IEMENTECH	IEEE	7000
2019	Prof. Sanghamitra Poddar	IEMCON 2019	For attending IEMCON 2019	1,50,000
2019	Prof. Dr. Malay Gangopadhyay	IEMCON 2019	For attending IEMCON 2019	1,50,000
2019	Prof. Dr. Himadri Nath Saha	IEMCON 2019	For attending IEMCON 2019	1,50,000
2019	Prof. Sanghamitra Poddar	UEMCON 2019	For attending UEMCON 2019	1,50,000
2019	Prof. Dr. Malay Gangopadhyay	UEMCON 2019	For attending UEMCON 2019	1,50,000
2019	Prof. Dr. Himadri Nath Saha	UEMCON 2019	For attending UEMCON 2019	1,50,000
2019	Prof. Avijit Bose	Smart Makers Festival 2019	For attending Smart Makers Festival 2019	1,50,000
2019	Prof. Samapika Das Biswas	Smart Makers Festival 2019	For attending Smart Makers Festival 2019	1,50,000
2019	Prof. Prabir Kumar Das	Smart Makers Festival 2019	For attending Smart Makers Festival 2019	1,50,000
2019	Prof. Nikesh Kumar	Smart Makers Festival 2019	For attending Smart Makers Festival 2019	1,50,000
2019	Prof. Abhishikta Bhattacharjee	ICELTS	ELTAI	2000
2019	Prof. Mayurakshi Dev	ICELTS	ELTAI	2000
2019	Prof. Riya Barui	ICELTS	ELTAI	2000
2019	Prof. Samapika Das Biswas	ICELTS	ELTAI	7000
2019	Aramita De Das	COMSYS	SPRINGER	6000
2019	Dr. Mohuya Chakraborty	eHaCON	SPRINGER	6000
2019	Kajari Sur	eHaCON	SPRINGER	8000
2019	Moutushi Singh	eHaCON	SPRINGER	8000
2019	Sanghamitra Poddar	Social Entrepreneurship Conclave Eastern Region	CII	6726

2020	Prof. Sanghamitra Poddar	CCWC 2020	For attending CCWC 2020	1,50,000
2020	Prof. Dr. Malay Gangopadhyay	CCWC 2020	For attending CCWC 2020	1,50,000
2020	ABHIJIT KARGUPTA	FDP PHASE 4	IEM	1100
2020	Ankita Mandal	FDP PHASE 4	IEM	1100
2020	Avijit Nemu	FDP PHASE 4	IEM	1100
2020	Debanjana Ghosh	FDP PHASE 4	IEM	1100
2020	Dibakar Roy Choudhury	FDP PHASE 4	IEM	1100
2020	Jyoti Anand	FDP PHASE 4	IEM	1100
2020	Koushik Chatterjee	FDP PHASE 4	IEM	1100
2020	Lavanya Deepika Tigga	FDP PHASE 4	IEM	1100
2020	PRAKASH BANERJEE	FDP PHASE 4	IEM	1100
2020	Rimi Sengupta	FDP PHASE 4	IEM	1100
2020	RUPSA SEN	FDP PHASE 4	IEM	1100
2020	SHUKLA KARMAKAR	FDP PHASE 4	IEM	1100
2020	Sohom Chakraborty	FDP PHASE 4	IEM	1100
2020	Somnath Banerjee	FDP PHASE 4	IEM	1100
2020	Souharda Nandi	FDP PHASE 4	IEM	1100
2020	Srijita Basu	FDP PHASE 4	IEM	1100
2020	Subhajit Pal	FDP PHASE 4	IEM	1100
2020	Sudipto Kumar Mondal	FDP PHASE 4	IEM	1100
2020	Susmita Chaki	FDP PHASE 4	IEM	1100
2020	TINA DE	FDP PHASE 4	IEM	1100
2020	Tufan Saha	FDP PHASE 4	IEM	1100
2020	ANIK KUMAR HAZRA	FDP PHASE 4	IEM	1100
2020	Prarthana Banerjee	FDP PHASE 4	IEM	1100
2020	Saugata Ghosh	FDP PHASE 4	IEM	1100
2020	Smita Datta	FDP PHASE 4	IEM	1100
2020	Souharda Nandi	FDP PHASE 4	IEM	1100
2020	Suchandra Bose	FDP PHASE 4	IEM	1100
2020	Sumit Bal	FDP PHASE 4	IEM	1100
2020	Ankana Ghosh Dastidar	FDP PHASE 4	IEM	1100
2020	Aparajita Roy	FDP PHASE 4	IEM	1100
2020	Arijit Dey Sarkar	FDP PHASE 4	IEM	1100
2020	Arpita Das	FDP PHASE 4	IEM	1100
2020	Arundhati Ray	FDP PHASE 4	IEM	1100
2020	Ayanita Banerjee	FDP PHASE 4	IEM	1100
2020	Joysri Datta	FDP PHASE 4	IEM	1100
2020	Kakoli Dutta	FDP PHASE 4	IEM	1100
2020	Kriti Sarkar	FDP PHASE 4	IEM	1100

2020	Mitali Sengupta	FDP PHASE 4	IEM	1100
2020	Monami Chaudhuri	FDP PHASE 4	IEM	1100
2020	Ria Roy Choudhury	FDP PHASE 4	IEM	1100

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	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Nonteaching staff)
2019	Current Industry Trends		7.1.2019-11.1.2019	80	
	Women in Science & Technology		4.2.2019	30	
	Study of nuclear decay rate change due to environmental effect		5.2.2019	30	
	Animal cells and systems		6.2.2019.	30	
	Innovative Modeling in Software Engineering		25.03.019	80	
	Modern Tools for Video Lectures		26.03.2019-27.03.2019	80	
	Information Diffusion and Propagation Models		28.03.2019	80	
	Nuances and Tools of Scientific Publishing		14.03.2019	30	
	Blockchain		28.01.2019	25	
	Network Security		04.03.2019	25	
	Stress management and meditation	Stress management and meditation	8.07.2019-12.07.2019	40	15
	Nanomaterials, Organic Semiconductors, Low power VLSI, Antenna and wave propagation.		5.08.2019 - 9.08.2019	30	
	Pedagogy of Electrical Engineering - Prevailing Problems and Prospective Solutions		22.07.2019-26.07.2019	25	
	Behavioral Remodeling for Classroom Delivery of Teachers		26.08.2019-30.08.2019	30	
	Innovative rewards and		22.11.2019	25	

	recognitions				
	Reclamation and Cladding in Welding		12.11.2019	20	
2020	Teaching effectiveness in Contemporary Adults		21.02.2020	30	
	Developing The Next Generation Teacher		10-02-2020 to 14-02-2020	41	
	Contemporary Approaches in Research & Education, 2020 (CARE 2020)		24-02-2020 to 28-02-2020	50	
	Pedagogy of Electrical and Electronics Engineering-- Prevailing problems and prospective solutions		24-02-2020 to 28-02-2020	20	
	Emerging Trends in the field of ML Applications		02-03-2020 to 06-03-2020	36	
	Story Telling - Spin A Yarn	Story Telling - Spin A Yarn	26-03-2020	80	20
	Introduction to Algorithms		02-04-2020	40	
	Basics of Agility		02-04-2020	28	
	How to Overcome this Present Situation in Light of Combating the Effects of Corona Virus in Financial Market	How to Overcome this Present Situation in Light of Combating the Effects of Corona Virus in Financial Market	03-04-2020	30	10
	Machine learning and regression and some mathematical preliminaries		03-04-2020	40	
	Harnessing Quantum Power in Data Communication		07.04.2020	28	
	Towards Quantum Intelligence		06.04.2020	28	
	Skill Development and Job Search during and after COVID 19 outbreak	Skill Development and Job Search during and after COVID 19 outbreak	08-04-2020	40	15
	Digital Marketing		14.04.2020-	44	

			09.05.2020		
	IOT and Machine Learning Hands on for Beginners		14.04.2020-09.05.2020	25	
	Cryptography and Blockchain Basics		18.05.2020-20.06.2020	38	
	Machine Learning with Python programming		18.05.2020-20.06.2020	88	
	An interactive webinar on general awareness and myths surrounding the COVID - 19 pandemic	An interactive webinar on general awareness and myths surrounding the COVID - 19 pandemic	09.04. 2020	30	10
	IT Trends in COVID-19	IT Trends in COVID-19	11.04 2020	40	10
	Professional and skill development session: Interview Skills by Prof. Subhabrata Sengupta	Professional and skill development session: Interview Skills by Prof. Subhabrata Sengupta	23.07.2020	325	42
	Professional and skill development session: Recommendation System by Prof. Anupam Mondal	Professional and skill development session: Recommendation System by Prof. Anupam Mondal	24.07.2020	257	62
	Professional and skill development session: Research Papers, SCI Journals, PhD Thesis and all that by Dr.Kamakhya Prasad Ghatak	Professional and skill development session: Research Papers, SCI Journals, PhD Thesis and all that by Dr.Kamakhya Prasad Ghatak	27.07.2020	321	52
	Professional and skill development session: Application of MANET	Professional and skill development	28.07.2020	314	45

	by Prof (Dr) Swati Choudhuri	session: Application of MANET by Prof (Dr) Swati Choudhuri			
	Professional and skill development session: Data management in real time using Big Data Analytics and Framework by Prof. Amitavo Chattapadhyay	Professional and skill development session: Data management in real time using Big Data Analytics and Framework by Prof. Amitavo Chattapadhyay	29.07.2020	275	47
	Professional and skill development session: Marketing Challenges in service marketing by Prof. Bikas Chandra Mandal	Professional and skill development session: Marketing Challenges in service marketing by Prof. Bikas Chandra Mandal	29.07.2020	325	42
	Professional and skill development session: Towards Synthesis and Growth of Graphene Film: Nanotechnological Perspective by Prof. G S. Taki	Professional and skill development session: Towards Synthesis and Growth of Graphene Film: Nanotechnological Perspective by Prof. G S. Taki	30.07.2020	257	62
	Professional and skill development session: GHG emissions & It's Mitigation by Prof. Nikesh Kumar Singh	Professional and skill development session: GHG emissions & It's Mitigation by Prof. Nikesh Kumar Singh	30.07.2020	321	52
	Professional and skill development session: Introduction to NLP by	Professional and skill development	31.07.2020	314	45

Prof. Monalisa Dey	session: Introduction to NLP by Prof. Monalisa Dey				
Professional and skill development session: CORPORATE CREDIT RATING IN INDIA by Prof. AJANTA GHOSH	Professional and skill development session: CORPORATE CREDIT RATING IN INDIA by Prof. AJANTA GHOSH	31.07.2020	275	47	
Professional and skill development session: The role of particle irradiation in materials science by Prof. Sujit Bandyopadhyay	Professional and skill development session: The role of particle irradiation in materials science by Prof. Sujit Bandyopadhyay	3.08.2020	245	52	
Professional and skill development session: Basics of computing by Prof. (Dr.) Amit Kr. Mandal	Professional and skill development session: Basics of computing by Prof. (Dr.) Amit Kr. Mandal	4.08.2020	325	42	
Professional and skill development session: Challenges and probable solutions for future Aerospace Industries by Prof. (Dr.) Sanjoy Mando	Professional and skill development session: Challenges and probable solutions for future Aerospace Industries by Prof. (Dr.) Sanjoy Mando	4.08.2020	257	62	
Professional and skill development session: Internet of Things by Prof. Arijita Das	Professional and skill development session: Internet of Things by Prof. Arijita Das	5.08.2020	321	52	

Professional and skill development session: Unraveling the mysteries of protein folding and unfolding by Dr. Ruchira Mukherjee	Professional and skill development session: Unraveling the mysteries of protein folding and unfolding by Dr. Ruchira Mukherjee	5.08.2020	314	45
Professional and skill development session: Power System scenario in India by Prof. (Dr.) Priyotosh Mahish	Professional and skill development session: Power System scenario in India by Prof. (Dr.) Priyotosh Mahish	6.08.2020	275	47
Professional and skill development session: Story of Science by Dr.Saswati Barman	Professional and skill development session: Story of Science by Dr.Saswati Barman	7.08.2020	245	52
Professional and skill development session: Brand positioning by Prof. Swati Mukherjee	Professional and skill development session: Brand positioning by Prof. Swati Mukherjee	7.08.2020	245	52
Professional and skill development session: Applications of AI in our daily lives by Prof. (Dr.) Baishakhi Das	Professional and skill development session: Applications of AI in our daily lives by Prof. (Dr.) Baishakhi Das	10.08.2020	325	42
Professional and skill development session: Applications of AI in our	Professional and skill development	12.08.2020	257	62

daily lives by Prof. (Dr.) Baishakhi Das	session: Applications of AI in our daily lives by Prof. (Dr.) Baishakhi Das			
Professional and skill development session: Cost of Quality by Prof. Kaushik Banerjee	Professional and skill development session: Cost of Quality by Prof. Kaushik Banerjee	12.08.2020	321	52
Professional and skill development session: Marketing Management by Prof. Dibyendu Chattaraj	Professional and skill development session: Marketing Management by Prof. Dibyendu Chattaraj	13.08.2020	314	45
Professional and skill development session: The Glory of Mathematics in Ancient India by Prof. (Dr.) Sharmistha Ghosh	Professional and skill development session: The Glory of Mathematics in Ancient India by Prof. (Dr.) Sharmistha Ghosh	13.08.2020	275	47
Professional and skill development session: Science by Prof. Sudipta Swain	Professional and skill development session: Science by Prof. Sudipta Swain	13.08.2020	325	42
Professional and skill development session: VLSI Deign Flow by Prof. Pooja Joshi	Professional and skill development session: VLSI Deign Flow by Prof. Pooja Joshi	14.08.2020	257	62

Professional and skill development session: Human Centric Lighting by Prof. (Dr.) Rajib Malik	Professional and skill development session: Human Centric Lighting by Prof. (Dr.) Rajib Malik	14.08.2020	321	52
Professional and skill development session: Importance of social network analysis by Prof. (Dr.) Goldina Ghosh	Professional and skill development session: Importance of social network analysis by Prof. (Dr.) Goldina Ghosh	17.08.2020	314	45
Professional and skill development session: Importance of social network analysis by Sourav Banerjee	Professional and skill development session: Importance of social network analysis by Sourav Banerjee	17.08.2020	275	47
Professional and skill development session: Application of Graph Theory in problem solving by Prof. Maumita Chakraborty	Professional and skill development session: Application of Graph Theory in problem solving by Prof. Maumita Chakraborty	18.08.2020	245	52
Professional and skill development session: Emerging technologies Implanted biomedical telemetry systems by Prof. Amitava Ghosh	Professional and skill development session: Emerging technologies Implanted biomedical telemetry systems by Prof. Amitava Ghosh	18.08.2020	325	42

Professional and skill development session: Current OProf. by Anindita Sarkar	Professional and skill development session: Current OProf. by Anindita Sarkar	19.08.2020	257	62
Professional and skill development session: Managing Stress by Lavanya Deepika Tigga	Professional and skill development session: Managing Stress by Lavanya Deepika Tigga	19.08.2020	321	52
Professional and skill development session: Brands and Brand Management by Prof. Soumik Das	Professional and skill development session: Brands and Brand Management by Prof. Soumik Das	20.08.2020	314	45
Professional and skill development session: Energy and spectrum utilization in wireless networks for current economic scenario by Prof. Sutanu Ghosh	Professional and skill development session: Energy and spectrum utilization in wireless networks for current economic scenario by Prof. Sutanu Ghosh	20.08.2020	275	47
Professional and skill development session: Cyber Crime Awareness by Prof. Manjima Saha	Professional and skill development session: Cyber Crime Awareness by Prof. Manjima Saha	21.08.2020	360	45
Professional and skill development session: Photonic Crystal by Prof. Rajib Ghosh	Professional and skill development session: Photonic Crystal by	24.08.2020	360	47

		Prof. Rajib Ghosh			
	Professional and skill development session: Electric mask a complete prevention from Covid 19 virus by Avijit Bose	Professional and skill development session: Electric mask a complete prevention from Covid 19 virus by Avijit Bose	24.08.2020	285	42
	Professional and skill development session: An Overview on Google Analytics by Prof. Souharda Nandi	Professional and skill development session: An Overview on Google Analytics by Prof. Souharda Nandi	25.08.2020	212	62
	Professional and skill development session: Effect of Covid-19 pandemic in India by Sandip Kumar Chaudhury	Professional and skill development session: Effect of Covid-19 pandemic in India by Sandip Kumar Chaudhury	25.08.2020	200	52
	Professional and skill development session: Crowd Behaviour Analysis using Machine Learning by Pritha Banerjee	Professional and skill development session: Crowd Behaviour Analysis using Machine Learning by Pritha Banerjee	26.08.2020	150	45
	Professional and skill development session: Science by Prof. Sudipta Swain	Professional and skill development session: Science by Prof. Sudipta Swain	26.08.2020	258	52
	Professional and skill development session: Basic Statistics by Dr. Krishanu Deyasi	Professional and skill development session: Basic	27.08.2020	245	52

		Statistics by Dr. Krishanu Deyasi			
	Professional and skill development session: Mechatronics and Robotics by Prof Neeta Sahay	Professional and skill development session: Mechatronics and Robotics by Prof Neeta Sahay	27.08.2020	245	52
	Professional and skill development session: Future of Robot by Dr Madhumita Pal	Professional and skill development session: Future of Robot by Dr Madhumita Pal	28.08.2020	245	52
	Professional and skill development session: Content Delivery Network by Darothi Sarkar	Professional and skill development session: Content Delivery Network by Darothi Sarkar	28.08.2020	245	52
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		Date and Duration (from – to)	
Short Course : Digital Marketing		44		14.04.2020 to 09.05.2020	
Short Course : IOT and Machine Learning Hands on for Beginners		25		14.04.2020 to 09.05.2020	
Short Course : Cryptography and Blockchain Basics		38		18.05.2020 to 20.06.2020	
Short Course : Machine Learning with Python programming		88		18.05.2020 to 20.06.2020	
FDP : Developing The Next Generation Teacher		41		10-02-2020 to 14-02-2020	
FDP : Contemporary Approaches in Research & Education, 2020		50		24-02-2020 to 28-02-2020	

(CARE 2020)		
FDP : Pedagogy of Electrical and Electronics Engineering-- Prevailing problems and prospective solutions	20	24-02-2020 to 28-02-2020
FDP : Emerging Trends in the field of ML Applications	36	02-03-2020 to 06-03-2020
FDP: Advances in Robotics & Mechatronics – Multidisciplinary System Engineering	13	09.12.2019 to 20.12.2019
FDP on latest industry trends and innovation – conducted by Lenze Mechatronics Pvt. Ltd.	17	07.04.2020 to 20.04.2020
AICTE Teaching and Learning (ATAL) Academy Sponsored FDP on INTERNET OF THINGS	1	30.04.2020 to 04.05.2020
AICTE Teaching and Learning (ATAL) Academy Sponsored FDP on AI	2	11.05.2020 to 15.05.2020
AICTE Teaching and Learning (ATAL) Academy Sponsored FDP on Cyber Security	1	18.05.2020 to 22.05.2020
AICTE Teaching and Learning (ATAL) Academy Sponsored FDP on Blockchain	1	27.05.2020 to 31.05.2020
AICTE Teaching and Learning (ATAL) Academy Sponsored FDP on Cyber Security	1	26 to 30 May, 2020
FDP on Nanomaterials, Organic Semiconductors, Low power VLSI, Antenna and wave propagation.	30	5.08.2019 to 9.08.2019
FDP on Pedagogy of Electrical Engineering - Prevailing Problems and Prospective Solutions	25	22.07.2019 to 26.07.2019
FDP on Behavioral Remodeling for Classroom Delivery of Teachers	30	26.08.2019 to 30.08.2019
FDP on Developing The Next Generation Teacher	41	10-02-2020 to 14-02-2020
FDP on Contemporary	50	24-02-2020 to 28-02-2020

Approaches in Research & Education, 2020 (CARE 2020)			
FDP on Pedagogy of Electrical and Electronics Engineering-- Prevailing problems and prospective solutions	20	24-02-2020 to 28-02-2020	
FDP on Emerging Trends in the field of ML Applications	36	02-03-2020 to 06-03-2020	
One week Faculty Development Programme (26 – 30 August, 2019) on " Behavioral Remodeling for Classroom Delivery of Teachers " in collaboration with Electronics & ICT Academy, IIT Guwahati, Assam - An Initiative of Ministry of Electronics& Information Technology (MeitY), Government of India.	20	26 to 30 August, 2019	
6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Temporary
224	224	50	41
6.3.5 Welfare schemes for			
Teaching		<ul style="list-style-type: none"> • Free basic medical facility • Loans for housing, vehicle and medical needs. • Group insurance. • Paid extra allowance of Rs. 10,000 for attending 15 days of official days of college physically • Assured Rs. 1 Lakhs of medical reimbursement for staffs who are affected by COVID-19 • The institute will give an incentive for publications in journals by faculty members. In case of a team, the amount shall be shared equally among team members : <ul style="list-style-type: none"> • Rs 8,000 for publications in SCI/SSCI journals and list of IIM recognized Management journals. • Rs 5,000 for publications in SCI(E) Journal. • Rs. 3,000 for publications in SCOPUS and ESCI • Rs. 1,000 for IEM-UEM foreign journals (except where the same article published in a conference) 	

	<ul style="list-style-type: none"> • Festival advances. • Pension schemes • Life insurance schemes • Each faculty and staff member will be eligible for incentives up to 1 lac per visit, 3 times a year, for organizing conferences/ Study Abroad Programmes. • Each staff member are eligible, twice per year, towards registration and travel expenses for institute recognized list of Conference / Journal/Conferences organized by IEM-UEM group: <ul style="list-style-type: none"> • Rs 5000 reimbursement for attending National conferences for presentation of paper/s. • Rs 20,000 for attending International Conferences for presentation of paper/s / publication of papers • Fee concession for employee's children in education. • Rs 50,000 will be reimbursed to each staff member and/or their children, spouse and parents for medical expenses from organization under MOU with the institute. • Faculty taking courses from the SWAYAM portal/NPTEL/MOOCs upon taking courses approved by the Director, the course fees will be reimbursed by the institute. • Rs. 3,000 after a patent is filed and Rs. 10,000 after a patent is granted. • The Institute shall pay the research team an incentive equivalent to 5% of the research grants received from external funding agencies. • Award for Publications of text books in relevant engineering discipline <ul style="list-style-type: none"> • Rs. 25,000/- if the text book is published by an international publishers like McGraw Hill, Prentice Hall, Oxford University Press, IEEE Press, Springer-Verlag GmbH or other internationally reputed publishers. • Rs. 15,000/- if the text book is published by a national publisher like TataMcGraw Hill, Prentice Hall of India, MacMillan India, Sage. • Rs. 10,000/- if the text book is published by Regional / Local publishers.
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	<ul style="list-style-type: none"> Rs. 5,000 if a book chapter is published Transport facility.
Non-teaching	<ul style="list-style-type: none"> Free basic medical facility. Group insurance. Separate cooperative society. Festival advances. Pension schemes Life insurance schemes Loans for housing, vehicle and medical needs. Fee concession for employee children in education. Transport facility.
Students	<ul style="list-style-type: none"> Accommodation (hostel facility). Free medical facility. Student insurance. Play grounds and gymnasium, meditation hall. Reimbursement for institutional event registration fees. Yoga practice centre. Recreational facilities. Implementation of fee reimbursement scheme. Assistance for getting scholarships. Publication of annual magazine.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each) :**YES**. The accounts section of the college is audited regularly as per the government rules. IEM has separate internal departments. The internal auditor checks receipts including fee receipts and payments with vouchers and necessary supports. He also ensures that all payments are duly authorized. The external auditor conducts statutory audit at the end of financial year. After the audit the report is sent to the management for review. The auditor is appointed by the board of trustees in the board meeting. Last audit was done on 4th September, 2019 and as on date there is no adverse remark on the accounts of the institution. The college fills income tax return every year within the stipulated time.

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

Name of the nongovernment funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
Alumni Association	73,20,000.00	Development of college infrastructure and student welfare
Smart Society, USA	55,76,000.00	Organizing international conferences and research upliftment of the institute
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	8820	For membership at ROTARY NEWS TRUST
INSTITUTE OF ENGINEERING AND	15640	For membership at LIONS

MANAGEMENT TRUST		CLUB INTERNATIONAL DISTANCE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	8480	For membership at INNER WHEEL CLUB
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	40000	For membership at BIZ PRINT MEDIA PVT. LTD.
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	35400	For membership at Acetians Technologies Private Limited
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	25000	For membership at IEEE KOLKATA SECTION
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	47500	For membership at AIESEC-KOLKATA
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	8756	IEEE IEM Students received this fund to carry out their research work
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	7100	For membership at IET
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	5000	For membership at VIRTUAL SANGEET ASHRAM
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	157520	For membership at IEEE-USA
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	40000	For membership at SOLAR ENERGY SOCIETY OF INDIA
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	119140	For membership at INTERNATIONAL ASSOCIATION OF LIONS CLUB
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	118000	For membership at CII YOUNG INDIANS
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	24780	For membership at ROTARY CALCUTTA ASSOCIATION OFFICE ASIA
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	70800	For membership at NASSCOM
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	24750	For membership at LIONS INTERNATIONAL CLUB
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	2500	For membership at CALCUTTA CHAMBER
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	64900	For membership at INDIAN CHAMBER OF COMMERCE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	8260	For membership at BHARAT CHAMBER OF COMMERCE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	1777000	For membership at NSE ACADEMY LTD
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	17700	For membership at CALCUTTA CHAMBER OF COMMERCE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	826000	For membership at FICCI

INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	65976.75	For membership at ROTARY INTERNATIONAL SOUTH ASIA OFFICE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	48600	For membership at ELTAI
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	41300	For membership at BCCI
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	31860	For membership at Indo-Australia Chamber of Commerce
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	5900	For membership at INDO GERMAN CHAMBER OF COMMERCE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	10000	For membership at APAI.WB
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	295000	For membership at AIMA
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	41300	For membership at ASSOCEM
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	25883	For membership at AMERICAN INSTITUTE OF PHYSICS
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	104241	For membership at Toastmaster
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	11185	For membership at ASME
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	28000	For membership at INDIAN INSTITUTE OF Welding
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	141790	For membership at INTERNATIONAL ASSOCIATION COUNCIL
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	200000	For membership at CII
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	59000	For attending CII HIGHER EDUCATION CONCLAVE
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	165200	Fr attending CII ER Education Excellence Forum
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	25016	For membership at ROTARY INTERNATIONAL DISTRICT 3291
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	10030	For membership at COMPUTER SOCIETY OF INDIA
INSTITUTE OF ENGINEERING AND MANAGEMENT TRUST	247375	For membership at ASSPB

6.4.2 Total corpus fund generated: Rs. 50,10,703/-

6.5 Internal Quality Assurance System

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

Audit Type	External	Internal
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	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University Expert	Yes	IEM
Administrative	Yes	University Expert	Yes	IEM
6.5.2 Activities and support from the Parent – Teacher Association (at least three)				
<ul style="list-style-type: none"> • Institute has quarterly parent-teacher meetings to understand the perceptions and expectations of the parents. • The feedback from parents on various academic and nonacademic activities is collected and analyzed by the IQAC. • Along with the students, parents are invited for the induction meeting conducted by the Institute Administration. • Institute believes in maintaining a holistic relationship between teachers and parents can improve the quality of education and it adopts several initiatives in this direction. • Institute has plans to introduce additional online programmes in every department for each student in which the parents can interact and get required information. • The parents are invited in all the events organized by the institute. 				
6.5.3 Development programmer for support staff (at least three)				
Different Development programmes are organised by the college for the support staff such as:				
<ul style="list-style-type: none"> • Orientation programme • Skill development programme • Stress management programme • Computer and skill based training 				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
<ul style="list-style-type: none"> • Received autonomous status • Arrangement of National and International Conferences/Seminars. • Arrangement of FDP for the teaching faculty. • Steps taken towards more campus drives for placement of final year students • New research labs were created • Digital Library of the institute have been upgraded • New incubation centers were set up in the institute to promote and support start-ups. 				
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 activity	Duration (from----- to-----)	Number of participants
2019	International Conference on English Learning and Teaching Skills	25.07.2019	25.07.2019 - 27.07.2019	185

2019	SMART MAKER FESTIVAL	17.11.2019	17.11.2019	285
2020	Distinguished lecture on Srinivasa Ramanujan: The man who knew Infinity	25.04.2020	25.04.2020	560
2020	COVID-19: Features, Evaluation & Treatment	01.05.2020	01.05.2020	287
2020	Research Design and codes of practice for maximizing the impact of energy and climate	14.05.2020	14.05.2020	325
2020	Foreign Lecture on Smart Home Technologies by Dr Benjamin Sovacool and Dr Dylan Del Rio, Imperial College	20.05.2020	20.05.2020	289
2020	Distinguished Foreign Lecture on Fluid Hydrofoil Interactions from Convertible Car Roofs to Rofoils, Dr Jason Knight, UK	21.05.2020	21.05.2020	189
2020	International Conference & HR Congress - Employment Scenario post Covid-19	23.05.2020	23.05.2020	365
2020	Distinguished Foreign Lecture on Condition monitoring of machinery by Prof. Len Gelman, University of Huddersfield, UK	04.06.2020	04.06.2020	284
2020	Distinguished Foreign Lecture on Time to Act (COVID -19) by Mr. Giovanni Marocchi and Prof Monomita Nandy	20.06.2020	20.06.2020	347
2020	Global challenge to Global Transformation? By Aoife Foley, Pratama Yudha Pradheksa, Raphel Heffron and Tabitha M. Benney	28.06.2020	28.06.2020	285
2020	Distinguished Foreign Lecture by Mr. G.	28.04.2020	28.04.2020	500

	Moracchi (Dragan Values Ltd. , Italy)			
2020	Distinguished Foreign Lecture by Mrs. M. Nandy (Brunel University, UK)	29.04.2020	29.04.2020	500
2020	Distinguished Foreign by Mr. D. Rio (Imperial College, UK)	14.05.2020	14.05.2020	650
2020	Distinguished Foreign by Mr. B. Sovacool (Sussex University, UK)	20.05.2020	20.05.2020	625
2020	Distinguished Foreign Lecture by Mr. B. Debic (Google Inc, USA)	22.05.2020	22.05.2020	450
2020	Distinguished Foreign Lecture by Mr. J. Knight (Portsmouth University, UK)	21.05.2020	21.05.2020	525
2020	Distinguished Foreign Lecture by Mr. L. Gelman (University of Huddersfield, UK)	28.05.2020	28.05.2020	550
2020	Distinguished Foreign Lecture by Mr. R. Alfred (ETH Zurich, Switzerland)	30.05.2020	30.05.2020	500
2020	Distinguished Foreign Lecture by Mr. L. Gelman, (University of Huddersfield, UK)	04.06.2020	04.06.2020	550
2020	Distinguished Foreign Lecture by Mr. R. Heffron, (University of Dundee, UK)	19.06.2020	19.06.2020	550
2020	Distinguished Foreign Lecture by Mr. I. Maglogiannis, University of Piraeus, Greece)	22.06.2020	22.06.2020	525
2020	Distinguished Foreign Lecture by Mr. D. Kalles (Hellenic Open University, Greece)	24.06.2020	24.06.2020	490
2020	Distinguished Foreign Lecture by Mr. L. Gelman (University of	30.06.2020	30.06.2020	525

	Hiddersfield, UK)			
2020	Distinguished Foreign Lecture by Mr. T. Stadelmann (ETH Zurich, Switzerland)	14.07.2020	14.07.2020	500
2020	Distinguished Foreign Lecture by Mr. A. Rufer (ETH Zurich, Switzerland)	23.07.2020	23.07.2020	525
2020	Distinguished Foreign Lecture by Mr. G. Paliouras (Hellenic Open University, Greece)	29.07.2020	29.07.2020	500

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-to)	Participants	
100 years of Women in Science in India	May 25, 2020	80 Females	45 Males
Women empowerment training programmes	26 th August – 6 th September, 2019	50 Females	10 Males

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Tree plantation, Rain Water harvesting, Hazardous waste management, E-waste management, Solar Panel
Percentage of power requirement of the College met by the renewable energy sources: YES

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/ Rails	Yes	3
Braille Software/facilities	No	0
Rest Rooms	Yes	4
Scribes for examination	No	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address	Number of initiatives taken to	Date and duration of the	Name of the initiative	Issues addressed	Number of participati
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	locational advantages and disadvantages	engage with and contribute to local community	initiative			ng students and staff
2019-2020	6	6	Last 2 Years	Rotary Club	Plantation of trees and cleanliness of locality	128
2019-2020	6	6	Last 2 Years	Lion's Club	Free education and well-being for under-privileged children	132
2019-2020	6	6	Last 2 Years	Smile of IEM	Free health care for under-privileged community	118
2019-2020	6	6	Last 4 Years	IEM PET Society	Provides food, vaccination and treatment of stray animals	122
2019-2020	6	6	Last 3 Years	IEM Marathon	Health awareness and social awareness	1500
2019-2020	6	6	Last 2 Years	IEM Cyclothon	Health awareness and social awareness	786

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
IEM Culture Deck	19 th September, 2019	This handbook contains some instructions to maintain the code of conduct and moral ethics in the institute. This book suggests the proper lifestyle which a person should lead in order to lead a healthy and happy life.

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
IEM POETICA: Development of aesthetic value through appreciation of poetries	9 th May, 2020	264

and literary composition.		
IEM Voices: Integration of multi-cultural and multilingual exchanges	28 th – 29 th February, 2020	168
Humane: An Outcry: An event organized by IEM PET SOCIETY to create awareness about the helpless street animals, to provide them food and vaccines	An everyday initiative	435
IEM in association with Dr.Sudarsan Chakrabarti Memorial Centre invited all (Faculty members staff of Institute of Engineering Management)for a Free Health check up	10 th March, 2020	127
IEM distributed food among Amphan Cyclone affected people	2 weeks initiative after the strike of the cyclone	87
Distribution of food packets among poor people during lockdown period for COVID-19	Daily distribution during the entire lockdown period	300
Smart Power Talks by Mirchi Agni	20 th June, 2019	582
Smart Power Talks by Barun Chandra	20 th June, 2019	378
Smart Power Talks by Debanjan Das	21 st June, 2019	289
Smart Power Talks by Rudranil Choudhury	21 st June, 2019	258
Smart Power Talks by Parambrata Chatterjee	30 th June, 2019	487
Smart Power Talks by Rana Dasgupta	30 th June, 2019	275
Smart Power Talks by Agnimitra Paul	16 th July, 2019	287
Smart Power Talks by Ayushman Mitra	17 th July, 2019	314
Smart Power Talks by Harshvardhan Bhan	17 th July, 2019	321
Smart Power Talks by Shekhar Dutt	15 th August, 2019	248
Smart Power Talks by Prabir Sengupta	27 th August, 2019	268
Smart Power Talks by Mrinal Kanti Nag	13 th September, 2019	271
Smart Power Talks by Rita Bhimani	16 th September, 2019	264

Smart Power Talks by Satvinder Madhok	21 st October, 2019	283
Smart Power Talks by Ankita Sinha	23 rd October, 2019	269
Smart Power Talks by MD.Asif Iqbal	26 th October, 2019	259
Smart Power Talks by Riddhi sen	17 th August, 2020	286

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

Plantation: Programmes for tree plantation are done inside/outside the campus to maintain the greenery and healthiness of the campus.

Rain Water harvesting: Water harvesting is practiced in the Institute. A system is designed to collect rain water, store it in a dedicated under-ground reservoir and reuse the water for cleaning and washing purpose in the institute.

Hazardous waste management: The Institute has set up a committee to handle hazardous waste management. Effective discharge of water from laboratories (underground drainage system), putting of damaged glassware and chemicals in specified locations. The Institute is plastic free campus.

E-waste management: The Institute administration has nominated a centralized team to look after obsolete items from the institute campus and their proper disposal. The e-waste is disposed calling tenders from the vendors who use it for recycling. Necessary steps are taken for speedy disposal.

Solar Panel: Solar panels have been installed on the roof top of the institute which is used to light up the corridors of the institute.

7.2 Best Practices--

Best Practice-1

Title of the practice	Using online platform for class management
Goal	The aim of this practice is to ensure class attendance, concentration of students in class and seamless maintenance of attendance and class performance record.
The context	The college has its own online Academic ERP platform called IEMCRP. IEMCRP at IEM, Kolkata (https://www.iemcrp.com) is the concept of Academic ERP which aims not only at achieving operational excellence in Institutions, but also makes its stakeholders, the beneficiaries of the system. As Academic ERP concept provides number of options through which, an Institution can share the information stored with the parents and other stakeholders and make them feel to be a part of the Institution itself. It includes the number of modules, proved beneficial to achieve the operational and functional efficiencies, monitoring and optimizing the management processes & operations and enhancing coordination across the various departments in the Institution.

The practice	The teachers upload a set of questions in IEMCRP before taking any class. The questions are based on the topic which will be taught in that particular period and are MCQ based. At the end of the class the students are instructed to log in to their individual account in IEMCRP and take the test. These test results ensure attendance and class performance of the students. These class performance marks and attendance is directly mapped with the MAKAUT internal marks of the students. At the end of the test, students are asked to give a feedback for the class attended so that the faculties can understand their need of improvement for the teaching-learning process.
Evidence of success	On implementation and imposition of this technique the attendance and attentiveness of the students in class is has improved. The classes have become more interactive and interesting than before.
Problem encountered and resources required	The main problem faced to implement this resource is that all the students have to bring their own smart phones or laptop to attend the quizzes. Sometimes net-connectivity becomes a great concern.
Best Practice-2	
Title of the practice	Recorded lectures of teachers for self-studying of students
Goal	The aim of the practice is to provide a basic knowledge about the subject to the students before attending the class
The context	The college has its own online teaching platform IEMLEARNING (https://www.iemlearning.com/). For each and every subject available in our curriculum syllabus, the subject teachers record their presentation based lectures in this portal. Each video is of 10 minutes and the teachers change the slides after 10 seconds to make the video interesting.
The practice	The students are instructed to watch the videos before attending the class. In the class the doubt of the students related to the video is cleared and hands-on assignments are given for better understanding of the subject. In the videos after completion of

	each module there is a quiz on the module where the students have to score minimum 80% to go to the next module. On completion of all the modules a certificate is provided to the learner with block chain based certificate ID which the students can produce in their CV.
Evidence of success	This practice improved the interest of the students towards the subject as they can access the lectures at their own convenient time. The average score of the students in the semester exams have also improved. The students were highly benefited by these videos during the lockdown for COVID-19 situation.
Problem encountered and resources required	The teachers were initially uncomfortable to teach in front of the camera and in absence of the students but gradually they got habituated. The videos had to be retaken for different technical issues. It was hard for the teachers to find time for recording the videos amidst the busy class schedule.
Best Practice-3	
Title of the practice	Studying economics, history, biology in engineering
Goal	The aim of the practice is to provide a basic knowledge about the subjects (economics, history, biology) to the students along with technical education to cope with the real world challenges
The context	Qualified and experienced faculty members in economics, history, and biology are employed to impart knowledge in the aforementioned subjects, along with technical and managerial subjects.
The practice	The students are encouraged to take up courses on subjects outside the technical and managerial course curriculum to gain knowledge in the fields of economics, history, and biology. Regular classes are scheduled in the routine with periodic examination for the continuous evaluation of each student.
Evidence of success	This practice improved the interest of the students towards the subjects which can be justified with their excellent performance in various competitive examinations like IAS,

	NET, UPSC, IES, WBCS, IPS, banking sectors etc.
Problem encountered and resources required	Motivating the students to study the subjects along with their regular course curriculum.
7.3 Institutional Distinctiveness	
Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust Provide the web-link of the institution in not more than 500 words	
<p>In this global crisis due to the outbreak of the deadly Coronavirus -Institute of Engineering & Management (IEM) has made it a mandate to not succumb under these encumbering negativity spread all around us rather to fight back and espouse an essence of positivity and normalcy in order to cope up with the panic situation by continuing with the academic curriculum as per schedule in a virtual mode where online classes are being held and regular assignments and quizzes are collected in order to track the academic improvement of the students before the imminent Placement drives within a few months. Apart from regular online classes, regular exams, placement classes, online seminars in latest industry technologies, online certification courses, hackathons, online mentoring sessions, online corporate lecture series, online foreign lecture series etc are going on with full rigor.</p> <p>These steps have been extremely successful in keeping the professors as well as the students engaged and motivated with productive and educational content.</p> <p>Amid this pandemic IEM have achieved an extraordinary feat to keep the lights on the normalcy of education and subsequent assessment of the students with examinations through online procedures. A systematic and disciplined approach, directed by the Controller of Examinations and supported by the highest authorities of the institutes, ensured that all the students were individually connected and brought into confidence of online completion of the syllabus, doubt clearing and subsequent examination formalities. This was well received and supported by the student fraternity and at the same time ensured that they stay ahead of their peers. Several continuous improvement examinations which included both theory and VIVA, online Practical examinations using virtual labs ensured that the examination could be conducted online with sufficient scalability and resilience.</p>	
Provide the web link of the institution	
https://iem.edu.in/	
8. Future Plans of action for next academic year (500 words)	
<p>IQAC plan of action to be decided upon at the beginning of the academic year</p> <ul style="list-style-type: none"> •Academics: <ol style="list-style-type: none"> 1. To organise interdisciplinary seminars, workshops, conferences. 2. To start new B.Tech. courses based on latest technology trends link Artificial Intelligence, Blockchain, Internet Of Things, and Machine Learning. BBA and BCA seats are increased. 3. Regular workshops and extra courses pertaining to the course curriculum to be organised. • Development programmes and collaborations: <ol style="list-style-type: none"> 1. To encourage faculty members to start new courses like Block chain, IOT, Artificial Intelligence, Machine Learning, etc. 2. Inspiring students for online certified courses. 3. Setting up of Industry Institute Partnership Committee (IIPC) 4. To increase the number of collaborations with foreign universities. 5. To establish faculty and student exchange programmes. • Research and innovations: <ol style="list-style-type: none"> 1. To explore possibilities for active industry participation. 	

2. To increase the number of patent applications.
 3. To increase publication of research papers in reputed journals with good impact factor.
 4. Search for funding from reputed industry and corporate houses related to research projects.
- Institutional social responsibility:
 1. Eco-friendly measures to be adopted.
 2. To organise more community service activities to contribute to the wellness of the society.
 3. To implement the existing awareness programmes on environmental issues.
 - Welfare programmes:
 1. To increase number of student internships, to support financially weak students, help students with very serious medical crisis.
 - Administrative:
 1. To enhance infrastructural development.
 2. Ensuring interactive feedback, analysis monitoring.
 3. Offer specific and targeted training to teachers and students.
 4. Academic audit (Internal/External) for continuous of academic upgradation.

Prof. Arun Kumar Bar

&

Name

Prof. Sanghamitra Poddar

Name

Prof.(Dr.) A.K.Nayak

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC