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ANNUAL REPORT

2018-19

MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



Maulana Abul Kalam Azad University of Technology, West Bengal
(formerly West Bengal University of Technology)

Main Campus : NH-12 (Old-NH-34), Haringhata, Pin- 741249

City office :BF-142, Sector - I, Saltlake- 700064

www.makautwb.ac.in

From The Desk of The Vice Chancellor

Maulana Abul Kalam Azad University of Technology, West Bengal is the nodal Technology University of the state which provides affiliation to more than 200 Colleges spread throughout the state offering courses in Engineering & Technology, Pharmacy, Architecture, Management, Applied Sciences and various professional courses. The University is recognized under Section 2(F) and 12(B) of the UGC Act. The courses offered by the University are approved by the All India Council for Technical Education (AICTE). The University, which started functioning from the State Archive Building at Shakespeare Sarani and later migrated to its Salt Lake campus at BF 142, Sector I, Salt Lake, Kolkata – 700064, is now carrying out its academic and administrative activities from its sprawling new academic campus of 40 acres located at Haringhata, Nadia. This main campus was inaugurated by the Hon'ble Chief Minister of West Bengal in 2018 in the august presence of the Hon'ble Minister-In-Charge, Department of Higher Education, Govt. of West Bengal. The University records its sincere gratitude to the Govt. of West Bengal for providing whole-hearted support in constructing this new campus and thereby fulfilling the cherished dreams of lakhs of stakeholders in having a campus of their own.



Prof. Saikat Maitra

The University, which was initially named West Bengal University of Technology, had its name changed to Maulana Abul Kalam Azad University of Technology, West Bengal on April 6, 2015 by dint of “The West Bengal University of Technology (Amendment) Act, 2015 passed in the West Bengal Legislative Assembly and the subsequent Government of West Bengal, Law Department Gazette Notification No. 487L – 6th April, 2015.

The University, which was initially named West Bengal University of Technology, had its name changed to Maulana Abul Kalam Azad University of Technology, West Bengal on April 6, 2015 by dint of “The West Bengal University of Technology (Amendment) Act, 2015 passed in the West Bengal Legislative Assembly and the subsequent Government of West Bengal, Law Department Gazette Notification No. 487L – 6th April, 2015.

The University has a twin character, viz. (a) as an affiliating University to provide and renew affiliation to more than 200 Colleges after duly carrying out the process of inspection to satisfy themselves about the presence and quality of the infrastructural and human resources, to get the students in all the affiliated Colleges as well as the In-House courses registered, conduct the examination process, keep tab on the teaching-learning process and help enhance employability of the students; (b) to conduct In-House courses, particularly in different cutting edge areas of Engineering, Technology, Management and Applied Sciences, run funded projects leading to publications and patents, offer consultancy activities etc.

True to its character as a Technology University, MAKAUT, WB has started the practice of digital inspection of the affiliated Colleges, to ensure transparency, reduce costs and increase the speed of execution of the process. This initiative has been highly lauded by AICTE.

In every semester, close to 1,40,000 students appear in the examinations held all across the state, around six and half lakh answerscripts are evaluated in a centralized manner and the results are published in around forty days. It may be mentioned that there are around ten thousand teachers in the MAKAUT, WB system comprising more than 200 affiliated Colleges. Some of these answerscripts are evaluated digitally by the teachers after being scanned.

The University has embarked upon an ambitious programme to improve the teaching learning process of the students of the MAKAUT family, enhance their employability prospects, and provide a viable linkage with industry and society at large. The University is working in close cohesion with the affiliated Colleges to achieve these objectives.

The University is putting great emphasis on digital pedagogy through adoption of Massive Online Open Courses (MOOCs) in the curricula, design of bouquet of such courses, allowing credit transfer using MOOCs, adoption of learning management systems through software and mobile applications. We are stressing on a learner-centric model where students master the concepts through a series of workshops and problem-solving approaches. A number of such workshops have been organized in the main academic campus at Haringhata to achieve this objective. Contemporary methods such as flipped learning, blended learning and similar approaches are being actively practised and patronized by us. The University has adopted the Mandatory Additional Requirements (MAR) to be completed by the students while earning their degrees in order to ensure holistic development of the students. The academic, physical and psychological well-being of the students are being monitored regularly through an active mentoring process with every College having a Single Point of Contact (SPOC) for such activity. The University has introduced the process of continuous evaluation to monitor academic progress of the students and initiate course correction, as and when necessary. The University is maintaining close linkage with industry to assess the industry needs and preparing the students accordingly. In other words, the University is following the Education 4.0 model which is the need of the hour. The University has signed a number of Memorandum of Understanding with industry bodies, organizations and other academic institutions for this purpose. Several certificate and diploma programmes are being initiated in collaboration with industry partners.

The University has started a plethora of professional courses such as those in Hotel Management, Hospitality Management, Hospital Management, Media Science, Risk Management, Real Estate Management, Data Science, Analytics etc. as well as vocational and skill development courses in a large number of disciplines to cater to the needs of the industry and society as well as provide employment opportunities to the students. A great deal of effort is being spent in inculcating cutting edge technologies such as those in Machine Learning, Artificial Intelligence, Internet of Things, Data Analytics, Big data, Robotics etc. so that the students have the necessary exposure in these domains.

One of the most notable achievements of the University is the launching of the Centralized Placement Portal, the first of its kind in the country, which will provide a platform to the employers to get in touch with the prospective employees, viz, the students in the MAKAUT family. The University plans to extend this facility subsequently to students of other Universities of the state.

In order to expand its activities, the University would need more human resources. The University has filled up all the vacancies in the officer positions as well as a large number of vacant faculty positions. The University has engaged a number of distinguished academicians and professionals as Adjunct/Visiting Professors as well as a number of bright young teachers on contractual basis to help run the different courses

being offered by the University. All of them are actively involved in designing the course curricula, setting up the labs and planning for the different courses on offer.

The University has received a grant of Rs 20 crores on account of Rashtriya Uchatara Shiksha Abhiyaan (RUSA) and is in the process of building new infrastructure using this fund. The University is also close to being awarded one Centre of Excellence in Cyber Security by the Department of Information Technology & Electronics, Govt. of West Bengal.

The University is trying to acquire additional sixty acres of land adjacent to its Haringhata campus for the construction of a Sports Complex, Centre for Skill Development and Training in Emerging Areas, Media Research and Facility Centre and Food & Biotechnology Research Centre. We strongly believe that introduction of these new facilities will attract a huge number of students from all across India and abroad to this campus. The objective is to make this campus truly international in character and world class in stature as well as generate employment for the students as well as the local population.

I am happy to announce that the University has already been approached by Bankura Unnayani Institute of Engineering Trust, the trustee body running one of the affiliated Colleges for handover of 10 acres of leasehold land for construction of a University campus in Bankura. This area is flanked by the Jangal Mahal area on one side and the Durgapur-Asansol area on the other. The University envisages an active role in adding value to both these regions through its academic and technological initiatives. The proposed Centre in Bankura will be used for training of youths and entrepreneurs, introduction of rural management, and other activities like setting up of Centre for Media Science, Rural craft hubs for dokra and terra cotta technology facilitation centre, Development of Heritage Tourism and Heritage preservation etc. All these will definitely lead to employment generation and economic improvement of the region. The University plans to set up an Aviation Training Academy in that Centre which will be useful for people living in the Durgapur-Asansol region. The University also plans to use a slew of professional programmes to aid students in these two areas.

I may add further that the University was granted seven acres of land in the Darjeeling area and the district authorities asked to identify this piece of land. The University plans to introduce courses on travel and tourism, hospitality management, hotel management, horticulture and other short term courses to enhance the employability of the people living in the hilly areas of West Bengal. Thus the University plans to leverage the immense biodiversity of the region and its expertise in biotechnology to set up an advanced research centre on this campus.

The curricula of the University are updated regularly in tune with the industry requirements. The University is in the process of rolling out a number of certificate and Post-Graduate Diploma courses in association with the industry partners. The University is trying hard to use its vast pool of researchers, faculty members and students to address issues faced by industry and resolve societal problems. We have already identified a number of thrust areas of research in Information Technology, Biotechnology, Material Science, Food Technology, Media Science etc. which are of industrial and societal relevance. Researchers are being encouraged to pursue research in these areas. The University is also asking the faculty members to get involved in patents and IPR-related drives. Through its Technology Business Incubation Centre, Ekta, the University is trying to imbibe spirit of start-up and entrepreneurship among the students. The University is partnering with TIFAC to develop certain clusters in different areas of West Bengal.

The faculty members of the University are into active research and the University boasts of a large number of research projects funded by DST, DBT, MHRD, CSIR, UGC as well as certain consultancy activities. The faculty members are being encouraged to align their research activities as per needs of industry and society.

To summarize, we are actively engaged in becoming the enabler of an academic ecosystem where modern teaching learning pedagogy is practised, cutting edge technologies are promoted and all kinds of digital tools are adopted. We fervently hope to contribute to the growth and development of West Bengal at large and thereby justify our status as the premier technological University of the state. We solicit kind cooperation from and active participation of all the stakeholders to fulfil our noble mission.

Maulana Abul Kalam Azad University of Technology, West Bengal

An Introduction

The Government of West Bengal set up an expert committee on December 31, 1998, under the Chairmanship of Prof. A. P. Mitra, Eminent Scientist to explore the necessity and scope for establishment of an Engineering / Technology University in the state of West Bengal.

The University came into operation formally with the assumption of the office of the first Vice Chancellor on January 15, 2001 as a sequel to the promulgation of THE WEST BENGAL UNIVERSITY OF TECHNOLOGY ACT, 2000, under the West Bengal Act XV of 2000 passed by the West Bengal Legislature. The University started its academic programme, from July 16, 2001 following a Notification from the Department of Higher Education, Government of West Bengal dated June 15, 2001 through the affiliation of Engineering and Management Institutions / Colleges and has entered the Seventeenth year of its functioning. The University is included in Section 2F and also in Section 12 B of UGC and a recipient of UGC Grant.

The University is an equal opportunity, affirmative action institution and do not distinguish on the basis of gender, caste, creed and religion and it wants to grow nurturing innovative/ novel ideas that would touch all segments of the society especially the marginalized ones. The technology is nurtured from a broad social perspective and are organizing postgraduate courses in basic and applied sciences with interfaces to social sciences. The University has introduced new courses in emerging areas to develop, enhance and strengthen our position in research and higher education. It strives for optimum utilization of resources and believe in unleashing individual initiative for entrepreneurial development without compromising the collective need.

The University is steadfast in its twin objectives:

- a) to serve as a Centre of Excellence in teaching and research in technology and management area
- b) to provide framework of industrialization based on knowledge economy.

For emerging as a Centre of Excellence, the University has created three Schools of Studies viz. School of Engineering & Technology (SET), School of Biotechnology & Biological Sciences (SBTBS) and School of Management and Sciences (SoMS) comprising presently seven departments, viz. Department of Computer Science & Engineering, Information Technology, Industrial Engineering & Management, Biotechnology, Bioinformatics, Management and Natural Sciences.

The Administration is taking steps to open up new departments in the Schools and the Departments are motivated to encourage inter-disciplinary research and teaching. All the departments enjoy full academic autonomy. The SET offers B.Tech. in CSE and IT as well as M.Tech. in Software Engineering, M.E. in Computer Science & Engineering, M.Tech. in Information Technology, M.Tech. in Microelectronics and M.Tech. in Industrial Engineering & Management. The SBTBS offers M.Tech. in Biotechnology (supported financially by Department of Biotechnology, Government of India), M.Tech. in Bioinformatics, MSc in Molecular Biology, Microbiology and Genetics and Ph.D. programs in emerging areas.

Vision of The University

To achieve the status of a globally ranked premier University in the field of Science, Technology, Pharmacy, Architecture, Management and interdisciplinary areas for the creation of high-calibre professionals with environmental consciousness, social, moral and ethical values along with the competency to face the new challenges of rapid technological advancements.

Mission of The University

- To impart quality and value-based teaching & learning of international standard for solving the real life problems
- To create and disseminate knowledge both nationally & internationally towards the transformations of civilization into a knowledge-based society
- To institutionalize the extension and field outreach activities with a view to transforming the university system into an active instrument for social change
- To develop liaison and collaboration with the globally recognised academic institutions in order to inject new and fresh thinking in teaching, learning and research
- To generate intellectually capable and imaginatively gifted professionals and successful entrepreneurs having environmental consciousness and ethics who can work as individual or in group in multi-cultural global environments to for continuing towards significantly the betterment of quality of human life.

Special Features

The teaching staff includes, visiting faculty, adjunct faculty members and distinguished visitors from the industry and front line academic and research institutes of the country and abroad. The core faculty itself comprises 33 teaching personnel.

The basic objective of the University is to organize undergraduate courses of study in Engineering and Technology, specially in emerging areas. The University now affiliates 194 institutions spreading over 23 districts of the state of West Bengal. Postgraduate study is being carried out in 98 of them and research is being carried out for the grooming of scientists, engineers and technologists. The University has now an intake capacity of about 6000 students at post-graduate level. In this venture, our affiliates are our cherished partners. It continuously seeks new partners in excellence be it industry or other institutions of higher learning. The University has intimate and collaborative linkages with national and International research institutes, Universities and the industries.

The affiliated colleges enjoy financial autonomy from the beginning. They also enjoy substantial autonomy in academic matters. They can suggest establishment of elective papers, frame their syllabus and get it ratified by the University Academic Council at UG level.

The University besides being supported by the State Government and central grants giving agencies, organizes programs to generate as much as 90% of its own resources. A number of our courses offered at the UG level are now accredited by NBA. By the end of this academic session, this number is expected to go up substantially.

University Entrance Examinations

JEMAT

JEMAT (Joint Entrance Management Aptitude Test) is conducted by MAKAUT, WB on behalf of Government of West Bengal for candidates aspiring to gain entry into Post Graduate Management

Programmes in MAKAUT, WB affiliated colleges as well as some other Universities/institutes in West Bengal. The admission process for JEMAT includes the written test, Group Discussion and Personal Interview (GD/PI) and Counselling sessions. JEMAT has been conducted thrice in 2018.

SLNO	EXAM NAME	ADMIT CARD ISSUED	APPEARED
1	JEMAT PHASE-I	378	310
2	JEMAT PHASE-II	665	558
3	JEMAT PHASE-III	89	87

PGET

PGET (Post-Graduate Entrance Test) is conducted by MAKAUT, WB for candidates aspiring to gain entry into Post Graduate Engineering Programmes in MAKAUT, WB and affiliated colleges in West Bengal. The admission process for PGET includes the written test, and counselling sessions. PGET has been conducted in 2018.

SLNO	EXAM NAME	ADMIT CARD ISSUED	APPEARED
1	PGET	1417	1237

CET

CET (Common Entrance Test) is conducted by MAKAUT, WB for candidates aspiring to gain entry into non-AICTE under-graduate and post-graduate in MAKAUT, WB and affiliated colleges in West Bengal. The admission process for CET includes a written test. Five phases of CET has been conducted in 2018 .

SLNO	EXAM NAME	ADMIT CARD ISSUED	APPEARED
1	CET PHASE-I	3269	2861
2	CET PHASE-II	7197	6367
3	CET PHASE-III	2557	2336
4	CET PHASE-IV	554	525
5	CET PHASE-V	145	131

List of MoUs during 2018-19

- PG Diploma/PG Certificate and FDP in Digital Marketing**
 A Memorandum of Understanding on Post-Graduate (PG) Diploma in Digital Marketing between Maulana Abul Kalam Azad University of Technology, West Bengal and Cambridge Marketing College, The UK, has been signed on the 21st day of February, 2019. This MOU was signed for the following programmes:
 - PG Diploma in Digital Marketing for 1 year

- Certificate programme in Digital Marketing for 6 months
- And Seminars and workshops for Faculty Development Programme and Continuous Professional Development Programme
- **PG Diploma / Certificate in New and Emerging Technologies & Soft Skills**
A Memorandum of Understanding on Post Graduate (PG) Diploma in New and Emerging Technologies between Maulana Abul Kalam Azad University of Technology, West Bengal and Aunwsha Knowledge Technologies Private Ltd. has been signed on the 22nd day of February, 2019. This MOU was signed for the following programmes:
 - PG Diploma in New and Emerging Technologies for 1 year
 - PG Certificate in New and Emerging Technologies for 6 months
 - Certificate programme in Soft Skills for 3 months
- **PG Diploma in Spatial Science**
A Memorandum of Understanding on Post Graduate (PG) Diploma in Spatial Science between Maulana Abul Kalam Azad University of Technology, West Bengal, India and OPSIS SYSTEM Pvt Ltd has been signed on the 29th day of March, 2019.
- A Memorandum of Understanding on Academic Research and Cooperation between Maulana Abul Kalam Azad University of Technology, West Bengal, India and Tennessee State University (TSU), USA has been signed on the 9th day of November, 2018
 - The purpose of the MoU is to develop the academic and educational cooperation and to promote relations and mutual understanding between both the universities. Both the universities have promised to have encouraging academic exchange, joint research activities, academic visit and exchange among teachers, research scholars and students, exchange of publications and teaching materials, co-sponsoring seminars, workshops, courses etc., assistance with developing relations and cooperation with industry and other institutes in each country.
- A Memorandum of Understanding between Maulana Abul Kalam Azad University of Technology, West Bengal, India and ATA INFOTECH VENTURES PVT. LTD. has been signed on the 12th day of December, 2018.
 - MAKAUT, WB and ATA INFOTECH PVT. LTD. are jointly organizing PG Diploma and certification courses on various topics of various fields. MAKAUT, WB will be responsible for the Admission Process, Fees Collection and Students' Evaluation and will provide the space for classrooms. On the other hand, ATA will provide the resource persons along with laboratory facilities. The certification of the programs will be provided by the university.
- A Memorandum of Understanding between Administrative Training Institute and Maulana Abul Kalam Azad University of Technology, West Bengal, has been signed on the 13th day of December, 2018
 - Both the parties have agreed to strengthen technical cooperation through sharing experiences, best practices and knowledge in the area of academics and capacity building of civil servants viz. WBCS(Exe) and IAS Officers undergoing training at ATA, WB for a period of 2 years/ 1 year.

- A Memorandum of Understanding between Maulana Abul Kalam Azad University of Technology, West Bengal and TWT Academy of Aviation and Management has been signed on the 27th day of December, 2018
 - A Certification course on DRONE (Remotely Operated Unmanned System) Operation and Maintenance of duration of six months is going to start for Indian Students at MAKAUT, WB campus. MAKAUT, WB will take care of the Admission Process, Fees Collection and Students' Evaluation and will provide the space for classrooms. And TWTAAM will provide the resource persons. The Certification will be done jointly by both the parties.
- A Memorandum of Understanding between WEBEL INFORMATICS LIMITED (A Govt. of West Bengal Undertaking) and Maulana Abul Kalam Azad University of Technology, West Bengal has been signed on the 31st day of December, 2018
 - WEBEL and MAKAUT, WB have made an agreement of 3 years for collaboration in Training & Skill Building to reach out further in the Districts to the aspirant youths of the state with enhanced curriculum, quality of training, Assessment and Certification.
- A Memorandum of Understanding between Maulana Abul Kalam Azad University of Technology, West Bengal and Merchants' Chamber of Commerce & Industry has been signed on the 3rd day of January, 2019
 - Merchants' Chamber of Commerce & Industry has agreed with MAKAUT, WB to provide all the support, assistance to MAKAUT, WB and its affiliated colleges intending to run all the academic courses in their respective campuses.
- A Memorandum of Understanding between Maulana Abul Kalam Azad University of Technology, West Bengal and West Bengal Electronics Industry Development Corporation (WBEIDC) has been signed on the 29th day of January, 2019
 - Both the parties have agreed to Plan, Propose, implement and Administer all ICT inventions of MAKAUT, WB to create an environment for the best in standard teaching/ learning experience with “Cutting edge ICT technology & infrastructure”

List of MoUs signed earlier but still is in force

- iLead Foundation and Hitech Film and Broadcasting Academy Pvt. Ltd.
- University of Dhaka, Bangladesh
- Realtor and Estate Consultants Association of Kolkata (RECA Kolkata)
- Association of Architects, Builders Interior Designers and Allied Business (ABID)
- Colvin Institute of Real Estate Development, University of Maryland, USA
- Confederation of Real Estate Developer's Association of India (CREDAI)
- Lincoln University College, Malaysia
- The Institute of Cost Accountants of India (ICAI)

- Department of Biotechnology, HANYANG UNIVERSITY
- N B institute for Rural Technology (NBIRT)
- Ministry of Communications and Information Technology, Dept. of Electronics and Information Technology



Academic Building at Haringhata Campus

University Campuses

The University began operating from the West Bengal State Archives Building located at 43 Shakespeare Sarani, Kolkata 700017. The University has two campuses, one located at Salt Lake, Kolkata- 700064, where all the academic and administrative activities are being carried out, while the campus at Haringhata, Nadia District is nearing completion. The Haringhata Campus has Academic and Administrative Blocks along with residential area covering the staff quarters, Guest House and hostels for boys and girls.

The University has created considerable infrastructure for smooth running of academic and administrative activities, including seminar halls and auditorium for conducting seminars, workshops, conferences, special classes and training programmes. The University has adequate number of laboratories and class room space including smart class rooms and ICT-enabled teaching learning environment. Most of the laboratories are well-equipped and are maintained nicely.

The University has developed an adequate IT infrastructure with more than 400 high-end PCs installed in different laboratories with a few numbers of dedicated computing facilities and individual PCs and laptops for all faculty members and officers as well as PCs for all the staff of the University. The University has a commendable computer to student ratio of 1:1.5. There is 1 Gbps network connectivity

The Biotech building and girls hostel are equipped with power backup systems. The library boasts of more than 34,000 books including both print books and E-books. There are more than 2000 e-journals and more than 3500 journals available from consortia (e-sodh-sindhu).

The campus is having several facilities like Gymnasium at hostels, Bank, Medical Centre, Sick Room, Playground etc. The campus is equipped with its own electrical sub-station and power back-up. The campus is connected with Wi-Fi facility. There are elevators, ramps and wheelchairs provided for differently able persons. The University also has a well laid out garden.



Guest House at Haringhata Campus

Academic Activities

Teaching Departments (In-House)

The University is having 9 (Nine) departments at its campus.

Name of the department	Year of inception	Courses offered	Student s intake		Faculty strength filled up		
			UG	PG	P	R	L
Computer Science & Engineering	2007	i) B.Tech. in CSE	38		2	2	11
	2003	ii) M.E. in CSE		23			
	2003	iii) M.Tech. in Software Engineering		23			
Microelectronics & VLSI Technology	2007	i) M.Tech in Microelectronics & VLSI Technology		23		1	
Information Technology	2003	i) B.Tech. in IT	38			2	
	2003	ii) M.Tech. in IT		23			
	2017	iii) M.Tech. in CS with Information Security		18			

		Specialization					
Industrial Engineering & Management	2008	i) M. Tech in Industrial Engineering & Management		23			1
Biotechnology	2003 2005 2007 2014	i) M.Tech. Biotechnology ii) MSc in Molecular Biology iii) MSc in Microbiology iv) MSc in Genetics		23 10 15 10	1	3	3
Bioinformatics	2004	i) M.Tech Bioinformatics		23		1	
Management	2006					1	
Natural Sciences							3
Material Science & Technology	2018	i) M.Tech in Material Science & Technology		18			
Total				76	162	3	10

P-Professor, R-Associate Professor(Reader), L-Assistant Professor(Lecturer)



Buildings at Haringhata Campus

In-House Course Fee (Undergraduate)

Name of the Course	Admission Fee	Tuition Fee per Sem	Se m	Total Tuition Fee	Lab Fee	Total Lab Fee	Library Fee	Total Lib Fee	Development Fee	Cauti on Mone y	Regi strati on Fee	Exa m Fee/ Sem	Total Exa m Fee	At the time of admissi on	Total course fee
M.Sc in Genetics	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Sc in Microbiology	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Sc in Molecular Biology	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Computer Science and Engineering	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400

M.Tech in Information Technology	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Software Engineering	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Computer Science (Information Security)	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Industrial Engineering and Management	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Bioinformatics	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Microelectronics and VLSI Technology	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Material Science and Technology	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Biotechnology (PGET)	4000	18000	4	72000	1000	2000	600	2400	1100	8000	500	1200	4800	32700	84400
M.Tech in Biotechnology (DBT)	4000	12000	4	48000	1000	2000	600	2400	1100	8000	500	1200	4800	26700	60400

In-House Course Fee (Postgraduate)

Name of the Course	Tuition Fee (Odd sem)	Tuition Fee (Even Sem)	Sem	Total Tuition Fee	Development Fee	Cautio n Money	Registr ation Fee	Exam Fee/S em	Total Exam Fee	At the time of admission	Total course fee
BTech CSE	25000	20000	8	180000	2200	8000	500	1200	9600	35200	200300
BTech IT	25000	20000	8	180000	2200	8000	500	1200	9600	35200	200300
BTech CSE (TFW)	0	0	8	0	2200	8000	500	1200	9600	10200	20300
BTech IT (TFW)	0	0	8	0	2200	8000	500	1200	9600	10200	20300

BTech CSE (Lateral)	25000	20000	6	135000	2200	8000	500	1200	7200	35200	152900
BTech IT (Lateral)	25000	20000	6	135000	2200	8000	500	1200	7200	35200	152900

School of Engineering & Technology

The School of Engineering & Technology consists of the Department of Computer Science & Engineering, Department of IT and Industrial Engineering & Management.

The Department of Computer Science & Engineering, under the School of Engineering & Technology offers B.Tech. in Computer Science & Engineering (CSE), M.E. in Computer Science and Engineering, M.Tech. in Software Engineering, and M.Tech in Microelectronics & VLSI Technology. All the courses are approved by AICTE.

The Department of Information Technology, under the School of Engineering & Technology offers B.Tech. in IT, M.Tech in IT and M.Tech CS with specialization in Information Security.

The Department of Industrial Engineering & Management under the School of Engineering & Technology offers M.Tech in Industrial Engineering & Management. This course is AICTE approved.

Department of Computer Science & Engineering



Sriyankar Acharya, Professor

Prof. Sriyankar Acharya obtained M. Tech. and Ph.D. in Computer Science & Engg. from Calcutta University. He worked in Bhabha Atomic Research Centre as Scientific Officer (C) from 1989 to 1995. Then, he was Reader in Physics at Vivekananda College, Kolkata and later, Reader in Computer & System Science at Visva Bharati University. At present he is Professor in Computer Science & Engg., Maulana Abul Kalam Azad University of Technology, West Bengal. His current area of research interest is Constraint Satisfaction Problems (CSP), Meta-heuristics, Combinatorial Optimization, Scheduling and Computational Biology.

Publication details

Papers published in journals

- Biswajit Jana, Suman Mitra, **Sriyankar Acharyya**(2019): Repository and Mutation based Particle Swarm Optimization(RMPSO): A new PSO variant applied to reconstruction of Gene Regulatory Network, Applied Soft Computing Journal (Thomson Reuter Indexed, UGC, Elsevier, Impact factor: 3.907, ISSN:15684946), 74, 330-355, doi.org/10.1016/j.asoc.2018.09.027
- Biswas S and **Acharyya S** (2018): A Bi-objective RNN Model to Reconstruct Gene Regulatory Network: A Modified Multi-objective Simulated Annealing Approach, *IEEE/ACM Transactions on*

Computational Biology and Bioinformatics (Thomson Reuter Indexed, UGC listed, Impact factor: 2.428, ISSN: 1557-9964, IEEE/ACM), 15(6): 2053 – 2059.

Papers presented at conferences

- Biswajit Jana, Suman Mitra, **Sriyankar Acharyya**, “Reconstruction of Gene Regulatory Network Using Recurrent Neural Network Model: A Harmony Search Approach”, in *Advances in Intelligent Systems and Computing* (Springer), vol: 2, pp. 129-138, ISBN: 978-981-13-3392-7.

Book Chapters (The presented paper is published as book chapter)

- Biswajit Jana, Suman Mitra, **Sriyankar Acharyya**, “Reconstruction of Gene Regulatory Network Using Recurrent Neural Network Model: A Harmony Search Approach”, in *Advances in Intelligent Systems and Computing*, (Springer), vol: 2, pp. 129-138, ISBN: 978-981-13-3392-7.

Ph.D. guided

Completed: Ms. Surama Biswas
Registered: Mr. Biswajit Jana and Mr. Suman Mitra
Enrolled: Ms. Moumita Maity

Courses designed

Course on “Soft Computing” for M.Tech. in CSE

Award/ Recognition

Shiksha Ratna Award from WB Govt.

B.Tech Projects guided Three candidates

M.Tech Projects guided Three candidates

Dr. Debashis De, Professor & HoD Dept. of Microelectronics and VLSI Technology

Dr. De earned his M.Tech from the University of Calcutta in 2002 and his Ph.D (Engineering) from Jadavpur University in 2005. He is a senior member of the IEEE. Life Member of CSI and member of the International Union of Radio science. He worked as R&D engineer for Telektronics. Presently, he is the head of the department and Associate professor in the Department of Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology, West Bengal, and Adjunct research fellow at the University of Western Australia, Australia. He was awarded the prestigious Boysscast Fellowship by the Department of Science and Technology, Government of India, to work at the Herriot-Watt University, Scotland, UK. He received the Endeavour Fellowship Award during 2008–2009 by DEST Australia to work at the University of Western Australia. He received the Young Scientist award both in 2005 at New Delhi and in 2011 at Istanbul, Turkey, from the International Union of Radio Science, Head Quarter, Belgium. He received IETE JC Bose Memorial Award at IETE, New Delhi. His research interests include location and handoff management, mobile cloud computing, traffic forecasting, green mobile networks, and low power nanodevice designing for mobile applications. He has published in more than hundred peer-reviewed international journals in IEEE, IET, Elsevier, Springer, World Scientific, Wiley, IETE, Taylor Francis and ASP, sixty International conference papers, four researches monographs in springer, CRC, NOVA and one Book from Pearson education, Vikas publishers.



Patents:

- PP Ray, D Dash, D De, Novel Development of Decentralized Light-Weight SPV Client for Trustless Blockchain-IoT Assisted e-Healthcare in Resource-Constrained Environment, IN Patent App. 201,931,008,732
- S.Hati, D.De, P.Dey, "Location Tracking System For Indoor Environment (LTIE)", Indian Patent Filed, File No. 201831030620, Date August 16, 2018. Journal Number- 36/2018, Journal Date- 07/09/2018.
- S Sarkar, D De, S Lahiri, R Hidar, B Neogi, Solar Powered cooling helmet for jawan and traffic police, IN 201931012841
- J Ghosh, D De, G Jana M Ghosh, S Pal, B Neogi, Automatic cloth changeable baby care smart intelligent cradle with real time surveillance, IN 201831044805
- KUNAL DAS, ARINDAM SADHU, Debashis De, Conflict Resolvable Dual Port SRAM Memory Design in Quantum dot Cellular Automata. Indian Patent Application Number -201831015539, published on 11/05/2018. Publication Number: 19/2018

Research Project as Principal Investigator and Co PI:

Co PI: 2019 Investigation of the activity of graphene and its derivatives towards the biological systems with special relevance to *C. elegans*. This is an R & D Project sanctioned by HED, S & T and Biotechnology (GoWB): INR 21 lac

Awards and Achievements:

2018 : IET London, UK premium Best research paper Award, 2018

Journal Publications:

- Anwesha Mukherjee, Debashis De, Deepsubhra Roy: A Power and Latency Aware Cloudlet Selection Strategy for Multi-Cloudlet Environment. IEEE Transactions on Cloud Computing 07/2019;, DOI:10.1109/TCC.2016.2586061 Impact factor : 7.8
- J Das. D De, S Mandal, N Senu, QCA Based Error Detection Circuit for Nano Communication Network, May 2019, IEEE Access, Impact factor : 3.55
- A Mukherjee, P Deb, D De, WmA-MiFN: A Weighted Majority and Auction Game Based Green Ultra-Dense Micro-Femtocell Network System, IEEE Systems Journal, 2019, Impact factor : 4.3
- Alam, Sahabul, and Debashis De. "Bio-inspired smog sensing model for wireless sensor networks based on intracellular signalling." Information Fusion 49 (2019): 100-119. Impact factor : 6.8
- Roy, D.G., Mukherjee, A., De, D. and Srirama, S.N., 2019. Practical Implementation of Femtolet Based Peer-to-Peer Network. Wireless Personal Communications, pp.1-22. Impact factor : 1.2
- Das, J.C. and De, D., 2019. Directed acyclic graph-based design of digital logic circuits using QCA. Journal of Computational Electronics, pp.1-19. Impact factor : 1.5
- Roy, D.G., Mahato, B., Ghosh, A. and De, D., 2019. Service aware resource management into cloudlets for data offloading towards IoT. Microsystem Technologies, pp.1-15. Impact factor : 1.58

- Samarjit Roy, Dhiman Sarkar, Debashis De, Entropy-aware ambient IoT analytics on humanized music information fusion, Journal of Ambient Intelligence and Humanized computing(2019) Impact factor : 1.43
- Avishek Chakraborty, Sankar Prasad Mondal, Shariful Alam, Ali Ahmadian, Norazak Senu, Debashis De, Soheil Salahshour: The Pentagonal Fuzzy Number:Its Different Representations, Properties, Ranking, Defuzzification and Application in Game Problems. Symmetry 02/2019; 2019(11):1-31., DOI:10.3390/sym11020248 Impact factor : 1.3
- Subha Ghosh, Debashis De, Priti Deb: Energy and Spectrum Optimization for 5G Massive MIMO Cognitive Femtocell Based Mobile Network Using Auction Game Theory. Wireless Personal Communications 02/2019;, DOI:10.1007/s11277-019-06179-3 Impact factor : 1.2
- Debarati Dey, Pradipta Roy, Debashis De: Electronic Transport Properties of Electrically doped Cytosine based Optical Molecular Switch with Single Wall Carbon Nano Tube Electrodes. IET Nanobiotechnology 02/2019;, DOI:10.1049/iet-nbt.2018.5375 Impact factor : 2
- Anwesha Mukherjee, Deepsubhra Guha Roy, Debashis De: Mobility-aware task delegation model in mobile cloud computing. The Journal of Supercomputing 01/2019; 75(18)., DOI:10.1007/s11227-018-02729-x Impact factor : 1.5
- Anwesha Mukherjee, Debashis De, Rajkumar Buyya: E2R-F2N: Energy-efficient retailing using a femtolet-based fog network. Software Practice and Experience 12/2018;, DOI:10.1002/spe.2673 Impact factor : 1.33
- Partha Pratim Ray, Dinesh Dash, Debashis De: Internet of Things-based Real-Time Model Study on e-Healthcare: Device, Message Service and Dew Computing. Computer Networks 12/2018; 149., DOI:10.1016/j.comnet.2018.12.006 Impact factor : 2.6
- Partha Pratim Ray, Dinesh Dash, Debashis De: Approximation of fruit ripening quality index for IoT based assistive e-healthcare. Microsystem Technologies 11/2018;, DOI:10.1007/s00542-018-4238-y Impact factor : 1.58
- Nurzaman Ahmed, Debashis De, Md. Iftekhar Hussain: Internet of Things (IoT) for Smart Precision Agriculture and Farming in Rural Areas. 11/2018; PP(99):1-1., DOI:10.1109/JIOT.2018.2879579 Impact factor : 5.8
- Debarati Dey, Pradipta Roy, Debashis De: First Principle Study of the Self Switching Characteristics of the Guanine based Single Optical Molecular Switch using Carbon Nano Tube Electrodes. IET Nanobiotechnology 10/2018;, DOI:10.1049/iet-nbt.2018.5227 Impact factor : 2
- Priti Deb, Anwesha Mukherjee, Debashis De: Design of Green Smart Room Using Fifth Generation Network Device Femtolet. Wireless Personal Communications 10/2018;, DOI:10.1007/s11277-018-6066-x Impact factor : 1.2
- Surajit Bari, Debashis De, Angsuman Sarkar: Low power and high speed design issues of CMOS Hamming code generation and error detection circuit at 22 nm and 16 nm channel length of MOS

transistor. Microsystem Technologies 09/2018; DOI:10.1007/s00542-018-4143-4, Impact factor : 1.58

- Pradipta Roy, Debarati Dey, Debashis De: A First Principle Approach Towards Logic design using Hydrogen doped single strand DNA. IET Nanobiotechnology 09/2018; 13(1)., DOI:10.1049/iet-nbt.2018.5027 Impact factor : 2
- Jadav Chandra Das, Debashis De: Computational fidelity in reversible quantum-dot cellular automata channel routing under thermal randomness. Nano Communication Networks 09/2018; 18., DOI:10.1016/j.nancom.2018.08.003 Impact factor : 2
- Subha Ghosh, Debashis De, Priti Deb, Anwesha Mukherjee: 5G-ZOOM-Game: small cell zooming using weighted majority cooperative game for energy efficient 5G mobile network. Wireless Networks 08/2018; DOI:10.1007/s11276-018-1818-9 Impact factor : 2
- Samarjit Roy, Dhiman Sarkar, Sourav Hati, Debashis De: Internet of Music Things: an edge computing paradigm for opportunistic crowdsensing. The Journal of Supercomputing 08/2018; DOI:10.1007/s11227-018-2511-6, Impact factor : 1.5
- Debarati Dey, Pradipta Roy, Debashis De: Electronic Enhancement Effect of Doped Ferro-magnetic Material in Bio-molecular Hetero-junction Switch. IET Circuits Devices & Systems 07/2018; 13(1)., DOI:10.1049/iet-cds.2018.5244 Impact factor : 1.4
- Jadav Chandra Das, Debashis De: Design of Single Layer Banyan Network Using Quantum-Dot Cellular Automata for Nanocommunication. Optik - International Journal for Light and Electron Optics 07/2018; 172., DOI:10.1016/j.ijleo.2018.07.119 Impact factor : 1.1
- Deepsubhra Guha Roy, Bipasha Mahato, Debashis De, Rajkumar Buyya: Application-aware end-to-end delay and message loss estimation in Internet of Things (IoT) - MQTT-SN protocols. Future Generation Computer Systems 07/2018; 89., DOI:10.1016/j.future.2018.06.040 Impact factor : 4.6
- Anwesha Mukherjee, Debashis De: Octopus Algorithm for Wireless Personal Communications. Wireless Personal Communications 05/2018; DOI:10.1007/s11277-018-5703-8 Impact factor : 1.2
- Priti Deb, Anwesha Mukherjee, Debashis De: A Study of Densification Management Using Energy Efficient Femto-Cloud Based 5G Mobile Network. Wireless Personal Communications 05/2018; DOI:10.1007/s11277-018-5810-6 Impact factor : 1.2
- Jadav Chandra Das, Debashis De: Qca based secure nanocommunication block cipher design based on electronic code book. Malaysian Journal of Computer Science 04/2018; 31(2):130-142., DOI:10.22452/mjcs.vol31no2.3 Impact factor : 0.5
- Kunal Biswas, Suranjana Mukherjee, Swati Sinha, Jaya Bandyopadhyay, Debashis De: Conductivity modulation of interstitially chemisorbed Manganese atom on Graphene for nanoelectronic application. Microsystem Technologies 04/2018; DOI:10.1007/s00542-018-3912-4: Impact factor : 1.58



Dr. Madhumita Das Sarkar, Associate Professor

Dr. Das Sarkar is an Associate Professor (Microelectronics), Dept. of CSE MAKAUT, West Bengal formerly known as WBUT. She has obtained her B Sc (Hons) degree in Physics and M Sc Degree in Electronic Science from University of Calcutta. She worked for her doctoral thesis under the guidance of Late Prof B R Nag, a Bhatnagar Awardee Scientist and Prof P K Basu of the Institute of Radio Physics & Electronics, Calcutta University. She served as CSIR Research Fellow from 1992-1994 and again from 1998-2003. She has published several research papers in refereed journals and presented in several International and National Conferences. Before joining MAKAUT as a Reader in Microelectronics in 2007, Dr. Das Sarkar has been working as a lecturer in the Department of Electronics & Communication Engineering, Techno India College, Salt Lake for approximately three years. Dr. Das Sarkar was solely involved in “Diamond-like Nanotechnology Centre”, a demonstration Centre of Bekaert Advanced Coating Technology, Buffalo, New York in association with ACC Material division, India. She also served as a Project Engineer for two years in Department of Electronics, Govt. of India funded Projects entitled “Process Simulation Program” in the Institute of Radio Physics & Electronics, Calcutta University and “Modeling of Semiconductor Devices” in the Department of Electronics and Telecommunication Engineering, Jadavpur University.

Her area of specialization is Semiconductor Science and Technology, Advanced Micro and Nano Devices and Technology and Transport in Quantum Nano-Structure Devices in which one of her research papers have received citations in Nature, 2016 [1]. Dr Das Sarkar has started working in the emerging area of Photovoltaic Circuit and System Design and Estimation of Important Parameters for Photovoltaic Application which is of recent research focus. She is supervising 2 students for their doctoral thesis and she is guiding 10 M Tech and B Tech students in the current session. She guided more than 50 students of in-house and affiliated colleges for their M Tech and B Tech project work. Most of the project works of the students are published in peer reviewed journals, proceedings, IEEE Xplore and even archived by IEEE EDS in 2015 [2]. Her students have been awarded in “National Student Research Convention” organized by Association of Indian Universities (AIU) under “Engineering and Technology” category held in 2010 and in 2013 consecutively, as well as in the academic meet organized by FOSET, WB in collaboration with DST, WB in 2010. She delivered Key-note speeches, Chaired as well as delivered invited talk in several technical sessions of International and National Conferences/Seminars. She convened several academic workshops, training programs and induction lectures in several emerging areas of importance including Industry-Centric programs. Dr. Das Sarkar is member of renowned professional societies like IEEE Electron Device Society, IEEE Power and Energy Society, IEEE PhotoVoltaic Society, IEEE Nanotechnology Council, IEEE Sensors Council, IEEE Biometrics Council, IEEE Council on Electronic Design Automation and also life member of Material Research Society of India (MRSI) and Solid State Circuit, India. She convened and coordinated Industry-Academia Conclave at Milan Mela Prangan during March 27-29, 2017 when she was the Coordinator of Industry-Institute-Interaction Cell in MAKAUT, West Bengal.

Project:

- Awarded by the Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal, for carrying out the Major Research Project entitled "Optimization of tilt angle of a fixed solar panel based on micro-climatic data of West Bengal" as the Principal Investigator for the period 2018-2021.
- Completed TEQIP sponsored R&D Major Project on “Installation and Commissioning of 5KW Grid connected and 3 KW Off-Grid Solar Photovoltaic Plant at the Canteen rooftop of the University at Salt Lake Campus in the year 2018.

- Also completed a TEQIP sponsored R&D Project on “Installation and Commissioning of 200L Solar Thermal Plant at the rooftop of the University building at the Salt Lake Campus in the year 2018.

Patent Details:

One of the M Tech Students Project on Portable Solar Tracker under her guidance, in the department of Microelectronics and VLSI Technology, is under process of patent filing. The innovation has been selected for Patent Searching and Patent guidance by Patent Information Centre, DST West Bengal. They evaluated the innovation and strongly recommend the innovation for patent submission.

Seminars/Conferences attended

a. As invited participant:

- A Seminar–cum–NRDC Industry Interaction Meet on Agriculture and Food Technologies on 31st August 2018 at Kolkata on “The Latest Development and Availability of Various Technologies for Commercialization”.
- A One-day Technical Seminar on Evolving Power Sector by West Bengal State Power Engineers’ Association (WBSPEA) on 19th May 2018 at Vidyut Bhawan

b. As member of the organising committee in :

- In the 3rd International Conference on 2019 Devices for Integrated Circuits (DevIc 2019) as an International Advisory Committee member. The Conference held on March 23-24, 2019 at Kalyani Government Engineering College organized by IEEE Student Branch Chapter, KGEC in association with IEEE EDS Kolkata Chapter, India .
- In an International Conference on Communication, Computing, Control and Devices-2018 (I4CD - 2018) , 17-18th December, at Institute of Technical Education and Research, Siksha 'O' Anusandhan, Deemed to be University, Odisha as Key-Note Speaker.

c. As seminar Chairman/ Co- Chairman:

- Acted as a session Chair in an International Conference on Computational Advancement in Communication circuit and System (ICCACCS-2018) www.nit.ac.in/ICCACCS-2018) during 23-24 November, 2018 at Narula Institute of Technology (JIS Group), Kolkata.
- Acted as session Chair in An International Conference on Communication, Computing, Control and Devices, 2018 (I4CD - 2018) Technical publishing partner is Springer, at Institute of Technical Education and Research, Siksha 'O' Anusandhan, Deemed to be University, Odisha.

d. As an invited Speaker :

- In An International Conference on Communication, Computing, Control and Devices, 2018 (I4CD - 2018) , 17-18th December, at Institute of Technical Education and Research, Siksha 'O' Anusandhan, Deemed to be University, Odisha, to deliver the speech as Key Note Speaker on “Solar Cell Technology from Device Perspective. “

Ph.D. guided in : 3 (guiding)

Courses designed: acted as Technical Coordinator on behalf of BOS for interaction with the representative of Texas Instrument and Sapience regarding Course Implementation and lab set up for B Tech and M Tech students of CSE, Microelectronics and VLSI Technology.

Industry visits : EPCOS TDK in Kalyani

Award/ Recognition :

Awarded by the Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal, for carrying out a Major Research Project entitled "Optimization of tilt angle of a fixed solar panel based on micro-climatic data of West Bengal" as the Principal Investigator for the period 2018-2021.

Outreach activities : delivered Key-note speech, chaired session, Attended 2-3 BOG meeting in BP Poddar Engineering College as a University Representative.

MOOCS completed/ Registered : Guided M Tech students of Microelectronics and VLSI Technology to complete two Audited courses as complementary part of the curriculum. Exam taken by me as part of the subjects.

B. Tech Projects guided : 3 in No, The outcome of the Project will be published in the University Journal

M.Tech Projects guided : 2.

New laboratory set up : Proposal placed

Any other Academic Achievements:

Actively involved as Coordinator in preparing the Draft Agreement for entering into the MOA with National Research Development Corporation NRDC , An Enterprise of DSIR, Ministry of Science & Technology, Govt. of India New Delhi - 110048.

Dr. Suparna Biswas, Assistant Professor

Working as an Assistant Professor in the Department of Computer Science & Engineering in Maulana Abul Kalam Azad University of Technology , WB since 2005. Completed ME and Ph.D from Jadavpur University, West Bengal in 2004 and 2013 respectively. She was an ERASMUS MUNDUS Post Doctoral research fellow in cLINK project in Northumbria University, Newcastle, during 2014-15 for 10 months. She had been a guest faculty member in Jadavpur University. She has co-authored a number of research papers published in International journals and conferences of repute. Her areas of research interests are Internet of Things, Network Security and Remote Health Care.



Publication details

Papers published in journals:

SCI Indexed Journal:

- J. Saha, C. Chowdhury, **S. Biswas**, "Two Phase Ensemble Classifier for Smartphone based Human Activity Recognition Independent of Hardware Configuration and Usage Behavior", Microsystem

Technologies, Springer, ISSN: 0946-7076 (print version), ISSN: 1432-1858 (electronic version), 2018, <https://doi.org/10.1007/s00542-018-3802-9>.

Scopus Indexed Journal:

- J.Saha, C.Chowdhury, I.RoyChowdhury, **S.Biswas**, N.Aslam, “An Ensemble of Condition based Classifiers for Device Independent Detailed Human Activity Recognition using Smartphones”, In the journal Information 2018, 9, 94; doi:10.3390/info9040094, MDPI (ISSN 2078-2489), April, 2018.
- Sohail Saif, Rajni Gupta, **Suparna Biswas**, “A complete secure cloud based WBAN framework for health data transmission by implementing authenticity, confidentiality and integrity”, International Journal of Advanced Intelligence Paradigms (IJAIP), ISSN Online: 1755-0394 ISSN Print: 1755-0386, 2018, **Scopus Indexed, (Accepted for publication September, 2018)**.

Papers published in Book Chapter:

- S.Saif, S.Biswas, “Secure data transmission beyond Tier 1 of medical body sensor network”, in proceedings of International Ethical Hacking Conference (eHacon, springer), Advances in Intelligent Systems and Computing, Vol. 811, pp. 405-417, ISBN: 978-981-13-1544-2 (online), ISBN: 978-981-13-1543-5 (print), October 2018, doi: 10.1007/978-981-13-1544-2_33
- S.Roy, S.Biswas, “A novel trust evaluation model based on data freshness in WBAN in proceedings of International Ethical Hacking Conference (eHacon, springer), Advances in Intelligent Systems and Computing, Vol. 811, pp. 223-232, ISBN: 978-981-13-1544-2 (online), ISBN: 978-981-13-1543-5 (print), October 2018, doi: 10.1007/978-981-13-1544-2_19

Papers presented in International Conference:

- S.Saif, **S.Biswas**, "On the implementation and performance evaluation of security algorithms for healthcare", in proceedings of International Conference on Communication, Devices and Computing (ICCDC, Springer), 14-15 March 2019.

Ph.D. guided:

Registered : 1. Jayita Saha, 2. Ramesh Saha, 3. Kaushik Karmakar

Enrolled: Sohail Saif

Courses designed : Cryptography & Network Security

Training Programme/ Workshop organised :

Coordinator of seminar on “India’s Contribution to World Peace” on the occasion of 125th Anniversary of the Historical Chicago speech delivery by Swami Vivekananda on 18/09/2018 at MAKAUT, WB.

B.Tech Projects

1. “On Android App Development for remote healthcare ” - 1 group of 3 students: Durgesh Singh, Ankit Srivastava, Abhishek Kumar Verma

M.Tech Projects

- i. Pratik Bhattacharya: “Fall detection system using smartphone sensors with user mobility support ”
- ii. Sarbani Barari: “Energy Efficient Routing in resource constrained WSN”
- iii. Ridhi Bhadoria: “Application of Deep Learning for disease classification”

New laboratory set up in : IoT and Security Lab

Any other Academic Achievements

Funded Research Project:

Project Title	Funding Agency	PI/CO-PI	Duration	Fund Granted
IoT based End-to-End Secure Remote Healthcare	WB DST	Dr. Suparna Biswas (PI)	2 Years 2019-2021	INR 5,40,600/-



Dr. Kaushik Majumder, Assistant Professor

Koushik Majumder has received his B.Tech and M.Tech degrees in Computer Science and Engineering and Information Technology in the year 2003 and 2005 with the university rank of 1st class 4th and 1st class 2nd respectively from University of Calcutta, Kolkata, India. He obtained his PhD(Engg.) degree in 2012 in the field of Mobile Ad hoc Networks from Jadavpur University. He has received National Certificates issued by the Ministry of Human Resource and Development, Government of INDIA for securing high marks in Madhyamik, Higher Secondary and B.Sc(Hons)Examination. He had ranked 1st in the state of West Bengal in the Science Talent Search Examination. Before joining the teaching profession he has worked in reputed international software organizations like Tata Consultancy Services and Cognizant Technology Solutions. He is presently working as an Assistant Professor in the Dept. of Computer Science & Engineering in Maulana Abul Kalam Azad University of Technology, West Bengal. He is the Co-Chief Investigator of the "Information Security Education and Awareness (ISEA)" project phase-II under Ministry of Electronics and Information Technology (MeitY), Govt. of India. He has published several papers in International and National level journals and conferences and book chapters. He is a Senior Member, IEEE, Life Member of Computer Society of India (CSI), Member of the International Association of Engineers (IAENG), International Association of Computer Science and Informational Technology (IACSIT) and Life Member of Advanced Computing and Communications Society (ACCS). He is presently serving as the editorial board member and reviewer of several international and national journals and conferences of repute.

Journal Papers:

- “A Lightweight Trust Mechanism and Overhead Analysis for Clustered WSN”, IETE Journal of Research, volume 63, number 3, pp. 297-308
- “Optimized secondary user selection for quality of service enhancement of Two-Tier multi-user Cognitive Radio Network: A game theoretic approach”, Computer Networks, Else Vier, Volume 123, Pages 1-18

- “Multi-objective optimization technique for resource allocation and task scheduling in vehicular cloud architecture: A hybrid adaptive nature inspired approach, Journal of Network and Computer Applications, Elsevier, vol. 103, pp. 58-84
- “State of the Art Technologies in Precision Agriculture: A Systematic Review”, Journal of the Science of Food and Agriculture, Edited By: Mark Shepherd and Andrew Waterhouse, wileyonlinelibrary.com

Conference Papers :

- A Hybrid Task Scheduling Algorithm for Efficient Task Management in Multi-cloud Environment. Asmita Roy, Sadip Midya, Debojyoti Hazra, Koushik Majumder, Santanu Phadikar. In Proceedings of International Ethical Hacking Conference 2018
- "SGSQoT: A Community-Based Trust Management Scheme in Internet of Things". Rupayan Das, Moutushi Singh, Koushik Majumder. In Proceedings of International Ethical Hacking Conference 2018.
- “Importance of Thermal Features in the Evaluation of Bacterial Blight in Rice Plant”. Ishita Bhakta, Santanu Phadikar, Koushik Majumder, In Annual Convention of the Computer Society of India, CSI 2018 : Social Transformation - Digital Way (2018, January).
- "A Survey on the Application of Multi-Objective Optimization Methods in Image Segmentation". Niladri Sekhar Datta, Himadri Sekhar Dutta, Koushik Majumder, Sumana Chatterjee, Najir Abdul Wasim. Mandal J., Mukhopadhyay S., Dutta P. (eds) Multi-Objective Optimization: Evolutionary to Hybrid Framework, pp 269-278, 2018, DOI: https://doi.org/10.1007/978-981-13-1471-1_12, Publisher Name: Springer, Singapore, Print ISBN: 978-981-13-1470-4, Online ISBN: 978-981-13-1471-1
- Asmita Roy, Sadip Midya, Koushik Majumder, Santanu Phadikar. Forensics-as-a-Service for Mobile Cloud Environment. In International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN)
- Asmita Roy, Sadip Midya, Koushik Majumder, Santanu Phadikar. Auction Based Spectrum Management in Cognitive Femtocell for Heterogeneous Network In International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) (to appear)
- Sadip Midya, Asmita Roy, Koushik Majumder, Santanu Phadikar. PSO based Optimized Resource Allocation in three tier Cloud Architecture for VANET. In International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) (to appear)
- Sadip Midya, Asmita Roy, Koushik Majumder, Santanu Phadikar. A Cluster-Based Handoff for Vehicular Ad-hoc Network In International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) (to appear)
- “Ltc : A Location and Trust Based Cluster Head Selection Scheme in Wireless Sensor Network”, Rupayan Das, Sutapa Kundu, Mrinal Kanti Sarkar, Moutushi Singh, Shankhadip Mallick, Koushik Majumder, Sanjay Kumar. In Proceedings of the 12th INDIACom; INDIACom-2018; IEEE

Conference ID: 42835 2018 5th International Conference on “Computing for Sustainable Global Development”, 14th - 16th March, 2018 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA)

Research Projects

Sl. No.	Title of the Major /Minor Project	Sponsoring Agency
1.	“Information Security Education and Awareness (ISEA) Project (Phase-II)”	Sponsored by Department of Electronics and Information Technology (DeitY) , Ministry of Communications and Information Technology, Electronics Niketan, 6, CGO Complex, New Delhi - 110003

Awards

Sl. No.	Title of the Award /Fellowship	International /National/ level	Awarding Body
1.	Awarded the Certificate in Big Data 101(BD0101EN, provided by Cognitive Class) an online course on cognitiveclass.ai of IBM	International	IBM
2.	Awarded the Certificate in Hadoop 101(BD0111EN, provided by BigDataUniversity) an online course on cognitiveclass.ai of IBM	International	IBM
3.	Awarded the Certificate in Introduction to Data Science(DS0101EN, provided by Cognitive Class) an online course on cognitiveclass.ai of IBM	International	IBM
4.	Awarded the Certificate in R 101(RP0101EN, provided by Cognitive Class) an online course on cognitiveclass.ai of IBM	International	IBM

Invited Lectures

Sl. No.	Title of the invited lecture /paper presented	Title of Conference/ Seminar with date	Organized by	Whether International/ National/State or University level
	Delivered lecture in the PhD coursework in the Computer Science Department of West Bengal State University,	19.02.2019 to 21.02.2019	West Bengal State University, Barasat	University

Barasat			
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Organizer:

1. Organizer of One week ISEA Project Phase II Faculty Development Program on “Cyber Security” organized by Department of Computer Science & Engineering, Maulana Abul Kalam Azad University of Technology, West Bengal , sponsored by Department of Electronics and Information Technology, Govt. of India during 28 January to 1 February, 2019 at Maulana Abul Kalam Azad University of Technology, West Bengal
2. Organizer of One week ISEA Project Phase II Faculty Development Program on “Cryptography and Cyber Security” jointly organized by B. P. Poddar Institute of Management and Technology, Kolkata & Maulana Abul Kalam Azad University of Technology, West Bengal , sponsored by Department of Electronics and Information Technology, Govt. of India during 25 to 29 March, 2019 at B. P. Poddar Institute of Management and Technology, Kolkata

Research Guidance

Sl. No.	Degree	No. of students guided
1.	M.Tech. or equivalent	11
2.	Ph.D. or equivalent	4
3.	BTech	1

Academic Staff college Orientation/ refresher Course attended:

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
“BLOCKCHAIN SUMMIT : GENESIS” - Summit on ‘Exchange of Knowledge on Blockchain & Its Applications’	Biswa Bangla Convention Centre.	13 th April, 2018	Department of Information Technology & Electronics. Govt. of West Bengal
One day Seminar “FICCI India Innovation Growth Programme 2.0” (It’s a unique tripartite initiative of the Department of Science & Technology, Govt. of India, Lockheed Martin and Tata Trusts)	Maulana Abul Kalam Azad University of Technology, West Bengal	25 th April 2018	Maulana Abul Kalam Azad University of Technology, West Bengal

Two weeks Short Term Training Programme on “IP Networking”	National Institute of Technical Teachers’ Training and Research (NITTTR), Kolkata.	1 st October to 12 th October, 2018	Govt. of India
Global Blockchain Congress “Consensus 2018”	Biswa Bangla Convention Centre, Kolkata	18-19 December, 2018	Department of Information Technology & Electronics, Govt. of West Bengal
One week TEQIP III sponsored workshop on NBA & NAAC Accreditation	organized by Maulana Abul Kalam Azad University of Technology, West Bengal in association with Engineering Staff College of India	3-7 January, 2019	TEQIP III
One week ISEA Project Phase II Faculty Development Program on “Cyber Security”	Maulana Abul Kalam Azad University of Technology, West Bengal	28 January to 1 February, 2019	Department of Electronics and Information Technology, Govt. of India
One week ISEA Project Phase II Faculty Development Program on “Cryptography and Cyber Security”	Jointly organized by B. P. Poddar Institute of Management and Technology, Kolkata & Maulana Abul Kalam Azad University of Technology, West Bengal , at B. P. Poddar Institute of Management and Technology, Kolkata	25 to 29 March, 2019	Department of Electronics and Information Technology, Govt. of India

Dr. Santanu Phadikar, Assisociate Professor & HoD Dept. of CSE

Dr. Phadikar is currently working as an associate professor & Head of the Department in the Department of Computer Science and Engineering. He has passed his graduation from Vidyasagar University and passed his master degree from University of Calcutta. He has received his Ph.D degree from Bengal Engineering and Science University, Shibpur. He has received University Gold Medal for securing highest marks in graduation in his subject. He has also received National Scholarship for higher study. He has served Vidyasagar University as Lecturer from 2002 to 2006. After that he is serving this University. He has a good number of publications in reputed Journals and Conferences. He is working in the field of smart farming, voice processing, image processing and cyber security . He is currently running the project ISEA-II as chief investigator.



Publication details

Papers published in journals

- MISNA-A musical instrument segregation system from noisy audio with LPCC-S features and extreme learning; H Mukherjee, SM Obaidullah, S Phadikar, K Roy; Multimedia Tools and Applications, 1-26, 1 2018
- Line spectral frequency-based features and extreme learning machine for voice activity detection from audio signal; H Mukherjee, SM Obaidullah, KC Santosh, S Phadikar, K Roy; International Journal of Speech Technology, 1-8, 9 2018
- A lazy learning-based language identification from speech using MFCC-2 features, H Mukherjee, SM Obaidullah, KC Santosh, S Phadikar, K Roy, International Journal of Machine Learning and Cybernetics, 1-14
- State of the Art Technologies in Precision Agriculture: A Systematic Review. I Bhakta, S Phadikar, K Majumder - Journal of the science of food and agriculture, 2019

Papers presented at conferences

- H. Mukherjee, S. M. Obaidullah, K. C. Santosh, T. Gonçalves, S. Phadikar and K. Roy, "Segregation of Speech, Music and Instrumentals with LSF-RG features," *2018 12th International Conference on Software, Knowledge, Information Management & Applications (SKIMA)*, Phnom Penh, Cambodia, 2018, pp. 1-6. doi: 10.1109/SKIMA.2018.8631533; URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8631533&isnumber=8631511>
- H. Mukherjee, S. M. Obaidullah, S. Phadikar and K. Roy, "A Dravidian Language Identification System," *2018 24th International Conference on Pattern Recognition (ICPR)*, Beijing, 2018, pp. 2654-2657. doi:10.1109/ICPR.2018.8545406; URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8545406&isnumber=8545020>

Book Chapters

- Santra P., Roy A., Midya S., Majumder K., Phadikar S. (2018) Log-Based Cloud Forensic Techniques: A Comparative Study. In: Perez G., Mishra K., Tiwari S., Trivedi M. (eds) Networking Communication and Data Knowledge Engineering. Lecture Notes on Data Engineering and Communications Technologies, vol 4. Springer, Singapore; DOI https://doi.org/10.1007/978-981-10-4600-1_5
- Mukherjee H., Phadikar S., Roy K. (2018) An Ensemble Learning-Based Bangla Phoneme Recognition System Using LPCC-2 Features. In: Bhateja V., Coello Coello C., Satapathy S., Pattnaik P. (eds) Intelligent Engineering Informatics. Advances in Intelligent Systems and Computing, vol 695. Springer, Singapore; DOI https://doi.org/10.1007/978-981-10-7566-7_7
- Mukherjee H., Ganguly S., Phadikar S., Roy K. (2018) An Ensemble Learning Based Bangla Phoneme Identification System Using LSF-G Features. In: Bhattacharyya S., Chaki N., Konar D., Chakraborty U., Singh C. (eds) Advanced Computational and Communication Paradigms. Advances in Intelligent Systems and Computing, vol 706. Springer, Singapore; DOI https://doi.org/10.1007/978-981-10-8237-5_20

- Himadri Mukherjee, Sk Md Obaidullah, K.C. Santosh, Teresa Goncalves, Santanu Phadikar, and Kaushik Roy. Instrumentals/songs separation for background music removal. In ITSRC'2018 – 3rd Conference on Information Technology, Computational and Experimental Physics, volume (to appear) of Advances in Intelligent Systems and Computing, page (to appear). Springer, 2018.; **URI:** <http://hdl.handle.net/10174/25065>
- Mukherjee H., Phadikar S., Roy K. (2018) Segregation of Speech and Songs - A Precursor to Audio Interactive Applications. In: Mandal J., Sinha D. (eds) Social Transformation – Digital Way. CSI 2018. Communications in Computer and Information Science, vol 836. Springer, Singapore; **DOI** https://doi.org/10.1007/978-981-13-1343-1_5
- Bhakta I., Phadikar S., Majumder K. (2018) Importance of Thermal Features in the Evaluation of Bacterial Blight in Rice Plant. In: Mandal J., Sinha D. (eds) Social Transformation – Digital Way. CSI 2018. Communications in Computer and Information Science, vol 836. Springer, Singapore; **DOI** https://doi.org/10.1007/978-981-13-1343-1_27
- Roy A., Midya S., Hazra D., Majumder K., Phadikar S. (2019) A Hybrid Task Scheduling Algorithm for Efficient Task Management in Multi-cloud Environment. In: Chakraborty M., Chakrabarti S., Balas V., Mandal J. (eds) Proceedings of International Ethical Hacking Conference 2018. Advances in Intelligent Systems and Computing, vol 811. Springer, Singapore; **DOI** https://doi.org/10.1007/978-981-13-1544-2_5
- Ghosh P., Karmakar A., Sharma J., Phadikar S. (2019) CS-PSO based Intrusion Detection System in Cloud Environment. In: Abraham A., Dutta P., Mandal J., Bhattacharya A., Dutta S. (eds) Emerging Technologies in Data Mining and Information Security. Advances in Intelligent Systems and Computing, vol 755. Springer, Singapore; **DOI** https://doi.org/10.1007/978-981-13-1951-8_24

Seminars/ Conferences

a. As participants:

- i. CICBA-2018 JULY 27TH 28TH 2018
- ii. International Conference On Research In Computational Intelligence And Communication Networks Ircicn-2018, RCCIIT, Kolkata
- iii. Annual convention of the computer society of India

b. As invited Speaker

- i. International Conference Raicmhas-2019 at Brainware University
- ii. Workshop On Cyber Security at Ramkrishana Mission Vivekananda Centenary College

c. As session chair:

- i. International Conference On Research In Computational Intelligence And Communication Networks Ircicn-2018, RCCIIT, Kolkata
- ii. International Conference On Computational Intelligence In Pattern Recognition Cipr-2019 , IIST Shibpur

- iii. International Conference Raicmhas-2019, Brainware University
- iv. International Conference on Electrical, Electronics, Computer Science & Civil Engineering-2019 at Pailan College of Engineering & management

Training Programme/ Workshop organised :

- i. ISEA Project Phase II FDP on Cyber Security from Jan 28-Feb 1, 2019
- ii. ISEA Project Phase II Sponsored Faculty Development Program on CRYPTOGRAPHY AND CYBER SECURITY 25th – 29th March 2019

B.Tech Projects guided : Student Information System

M.Tech Projects guided :

- a. DDOS attack detection in cloud environment,
- b. A deep learning approach for detection of normal & diseased leaf of rice plant



Mr. Mihir Sing, Assistant Professor

Mr. Sing has obtained his B. Tech. in Computer Science & Technology from Bengal Engineering College (C. U.) and M. Tech. in Computer and Information Technology from IIT, Kharagpur. He has almost ten years of teaching experience in different engineering colleges. He was a Lecturer in the Department of Computer Science & Engineering in Seemanta Engineering College, Orissa from April, 1998 to July, 2002. He also served as Lecturer in the Department of Computer Science & Engineering in University College of Engineering, Burla, Orissa from July, 2002 to April, 2008. His areas of interest are RDBMS, Data Structures, Compiler Design and Algorithm Analysis and Design.

Courses attended

As participant

- 1. Workshop on NBA & NAAC Accreditation , 3rd-7th Jan, 2019
- 2. FDP on Cyber Security, 28th Jan - 1st Feb, 2019
- 3. Workshop on Machine Learning with Python: A Deep Learning Approach, 25th-29th 2019

B.Tech Projects guided - One

M.Tech Projects guided – One

Mr. Subhanjan Sarkar, Assistant Professor

Subhanjan Sarkar has done his B.Tech and M.Tech. in Computer Science & Engineering from Department of Computer Science & Engineering, Calcutta University. Before joining this university he taught in Academy of Technology from July 2005 to August 2007. Areas of interest are Data structure, Data Base, Networking.



Courses attended

As participants

1. Workshop on NBA & NAAC Accreditation , 3rd-7th Jan,2019
2. FDP on Cyber Security, 28th Jan - 1st Feb, 2019
3. Workshop on Machine Learning with Python: A Deep Learning Approach, 25th-29th 2019

B.Tech Projects guided - One

M.Tech Projects guided - One



Mr. Santanu Chatterjee, Assistant Professor

Mr. Santanu Chatterjee completed his BE from Jalpaiguri Govt. Engineering College (North Bengal University), and his ME in Computer Sc. and Engineering (with specialization in Embedded Systems) from West Bengal University of Technology. His areas of interest are Operating Systems, Real Time OS, Embedded Systems. He is also passionate about GNU/Linux and other Open Source technologies.

Courses attended as participants

- (i) ISEA Project Phase II Sponsored One Week FDP on Network Security, 15th - 19th January, 2018
- (ii) Workshop on NBA & NAAC Accreditation , 3rd - 7th Jan, 2019
- (iii) Workshop on “Cryptography and Cybersecurity” from 12th - 16th February, 2019

B.Tech Projects guided - One

M.Tech Projects guided - One

Mr. Saikat Basu, Assistant Professor

He passed ME from Jadavpur University. He worked in various capacities before joining MAKAUT,WB. He started as Lecturer in Haldia Institute of Technology, served as Senior Lecturer in Dr. B.C Roy Engineering College and worked as an Assistant Director of Software Technology Parks of India. He has more than fifteen years of teaching experience. His topics of interest are Data structure, Networking, Internet-networking, Microprocessor, digital electronics etc. His research interest is AD-HOC networking, Machine learning, Network security etc.



Papers presented at conferences : 6

Books Authored : 1

B.Tech Projects guided : 3

M.Tech Projects guided : 3

New laboratory set up : 1



Dr. Amiya Karmakar, Assistant Professor

Dr. Amiya Karmakar, Assistant Professor, Department Of Computer Science and Engineering, Maulana Abul Kalam Azad University of Technology, W.B (Formerly Known as West Bengal University Of Technology) obtained his M. E. in Computer Science & Engineering with specialization in Embedded Systems from West Bengal University of Technology in 2005 and Ph.D in Computer Science and Engineering in

2015 from Maulana Abul Kalam Azad University of Technology, W.B (Formerly Known as West Bengal University Of Technology).

Dr. Karmakar has been engaged in teaching and research for the last nearly twelve years. He worked at West Bengal University of Technology as Project Officer for past Eleven years. Prior to this, he was faculty in Women's Polytechnic College, Dakhuria, Kolkata. Currently he is an Assistant Professor in the Department Of Computer Science and Engineering, Maulana Abul Kalam Azad University of Technology, W.B.

His area of research include Embedded System Design, Computer architecture, Re-configurable Architecture using FPGAs, Software Defined Radio, IOT, VLSI design, Digital Signal Processing, etc

Training Programme/ Workshop organised :

- Participated in the Workshop on “Cryptography and Cyber Security” organised by department of Information Technology, Maulana Abul Kalam Azad University of Technology, West Bengal, in association with Islamic University of Science & Technology, Jammu & Kashmir from February 12-16, 2019 at main campus of MAKAUT, WB.
- Participated in ISEA Project Phase II Sponsored one week Faculty Development Programme on “Network Security” organised by Department of Computer Science and Engineering, Maulana Abul Kalam Azad University of Technology, West Bengal held during 15-19, January, 2018 at main campus of MAKAUT, WB.

B.Tech Projects guided :

- A Project on “Design of Alumni website”, submitted by B.Tech students, Abhijit Das, Pritam Das, and Prantika Sen in the department of IT. They have successfully completed their project on 2018.

M.Tech Projects guided :

- A Project on “ Blood Vessel Segmentation from Retinal Fundus Images”, Submitted by M.Tech student, Tanmoy Kundu in the department of Information Technology. He has successfully completed his project on July 2018.
- A Project on “ Optic Disc Detection from Retinal Fundus Images Using Convex Hull Algorithm”, Submitted by M.Tech student, Sanchita Dutta in the department of Information Technology. She has successfully completed her project in July 2018.
- A Project on “ Smart Home Automation System Design Based on Internet of Things”, Submitted by M.Tech student, Somnath Panja in the department of Microelectronics and VLSI Technology, MAKAUT, WB. He has successfully completed his project in July 2018.
- A Project on “ Interfacing Analog To Digital Converters to FPGAS”, Submitted by M.Tech student, U. Pruthvi Raj in the Department of Microelectronics and VLSI Technology, MAKAUT, WB. He has successfully completed his project in July 2018.

- A Project on “ Energy Conservation System using Peltier Module and Thermistor for Drought Prone Areas”, Submitted by M.Tech student, Trisha Patra in the Department of Microelectronics and VLSI Technology, MAKAUT, WB. She has successfully completed her project in July 2018.

Dr. Sujoy Mistry, Assistant Professor

Dr. Sujoy Mistry is an Assistant Professor in the Department of Computer Science and Engineering, Maulana Abul Kalam Azad University of Technology, West Bengal. He received his Bachelor's and **Masters** degree at University of Calcutta, Kolkata, West Bengal, India, and joined as faculty at MAKAUT, WB, where he is teaching since 2017. Dr. Sujoy Mistry received his Ph.D degree from Jadavpur University, Kolkata, India in December 2017. He has served as TCS Research Scholar from 2012- 2016 under the registration of Jadavpur University, funded by Tata Consultancy Services(TCS) through their Research Scholarship Program.



He has almost Five years of teaching experience in different colleges. Currently he is doing research in the area of Distributed Computing, P2P Networks and Grid and Cloud Computing. He has published several papers in refereed journals and conferences also presented in several conferences. Some of his publications are given below-

Journal:

- **Sujoy Mistry**, Dibyanshu Jaiswal, Arijit Mukherjee and Nandini Mukherjee, "P2P Based Service Provisioning on Distributed Resources". Published in November, 2016 issue of (INTERNATIONAL JOURNAL OF NEXT GENERATION COMPUTING), IJNGC- Vol-7, No 3, ISSN: 2229-4678.
- Monideepa Roy, Aparajita Chandra, Bipin Behari Nandi, **Sujoy Mistry**, Nandini Mukherjee, "Resource Management in Wireless Ad-hoc Networks using Mobile Agents", Department Of Computer Science & Engineering Jadavpur University, Kolkata -32. Published in Karpagam Journal Of Computer Science, January 2011 issue, vol-5 Issue-2/Article 5, ISSN-0973-2926.

Conference:

- **Sujoy Mistry**, Dibyanshu Jaiswal, Arijit Mukherjee and Nandini Mukherjee, "P2P-based Service Distribution over Distributed Resources', In 29th IEEE International Conference on Advance Information Networking and Applications(AINA-2015).
- S. Bose, N. Mukherjee and **S. Mistry**, "Environment Monitoring in Smart Cities Using Virtual Sensors," 2016 IEEE 4th International Conference on Future Internet of Things and Cloud(FiCloud), Vienna, 2016, pp.399-404. doi: 10.1109/FiCloud.2016.63.
- **Sujoy Mistry**, Dibyanshu Jaiswal, Sagar Virani, Arijit Mukherjee and Nandini Mukherjee, 'An Architecture for Dynamic Web Service Provisioning using Peer-to-Peer Networks', In 9th International Conference on Distributed Computing and Internet Technology, ICDCIT-2013, LNCS 7753, p 290
- Dibyanshu Jaiswal, **Sujoy Mistry**, Arijit Mukherjee and Nandini Mukherjee, "A Chord-based Architecture for Efficient Dynamic Service Provisioning over Distributed Resources", accepted in

PDPTA'13 - The 2013 International Conference on Parallel and Distributed Processing Techniques and Applications.

- Dibyanshu Jaiswal, **Sujoy Mistry**, Arijit Mukherjee and Nandini Mukherjee, “Efficient Dynamic Service Provisioning over Distributed resources using Chord”, In International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), 2-5 Dec. 2013, Page(s): 257 – 264, INSPEC Accession Number: 14064326 .
- **Sujoy Mistry**, Arijit Mukherjee, Nandini Mukherjee, “Towards a Dynamic On-Demand Service Grid Based on P2P Networks”, Second International Conference on Emerging Application of Information technology 2011, Kolkata, India 2011, p- 165 – 170, ISBN-978-1-4244-9683-9.
- **Sujoy Mistry**, "Towards a Dynamic On-Demand Service Grid based P2P Networks". Poster Paper Presentation at TCS Technical Architect's global conference in Delhi on 3rd and 4th May 2012

List of Presentations in International / National Conferences

- **Sujoy Mistry**, Dibyanshu Jaiswal, Sagar Virani, Arijit Mukherjee and Nandini Mukherjee, 'An Architecture for Dynamic Web Service Provisioning using Peer-to-Peer Networks', In 9th International Conference on Distributed Computing and Internet Technology, ICDCIT-2013, KIIT, Bhubaneswar, LNCS 7753, p 290
- Dibyanshu Jaiswal, **Sujoy Mistry**, Arijit Mukherjee and Nandini Mukherjee, “Efficient Dynamic Service Provisioning over Distributed resources using Chord”, In International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), 2-5 Dec. 2013, Kyoto, JAPAN, Page(s): 257 – 264, INSPEC Accession Number: 14064326.
- **Sujoy Mistry**, Arijit Mukherjee, Nandini Mukherjee, “Towards a Dynamic On-Demand Service Grid Based on P2P Networks”, Second International Conference on Emerging Application of Information technology 2011, Kolkata, India 2011, p-165 – 170, ISBN-978-1-4244-9683-9.
- **Sujoy Mistry**, "Towards a Dynamic On-Demand Service Grid based P2P Networks". Poster Paper Presentation at TCS Technical Architect's global conference in Delhi on 3rd and 4th May 2012.

B.Tech projects guided

4 students completed their project successfully.

M.Tech Projects guided

5 students are doing their projects



Dr. Sriparna Saha, Assistant Professor

Sriparna Saha received her B.Tech. degree from RCC Institute of Information Technology, Kolkata, India and her M.E. and Ph.D. degrees from Electronics and Tele-Communication Engineering department of Jadavpur University, Kolkata, India. She is currently an Assistant Professor in the Department of Computer Science and Engineering of Maulana Abul Kalam Azad University of Technology, West Bengal, India. Prior to that, she was associated as a faculty with Jadavpur University and two

other institutions.

Her research area includes artificial intelligence, image processing and robotics. She has over 70 publications in international journals and conference proceedings including IEEE, Elsevier, Springer etc. She is the author of a book on Gesture Recognition published by Studies in Computational Intelligence, Springer, currently available in many online book retailers. She is also the reviewer for many international journals. Recently, her major research proposal is accepted for Start Up Grant under UGC Basic Scientific Research Grant.

She is the member of Governing Body of IDEAL Institute of Engineering. Also she was the member of Board of Studies for Maulana Abul Kalam Azad University of Technology, West Bengal.

Publication details

a. Papers published in journals

- “Ballet E-learning using fuzzy set induced posture recognition by piece-wise linear approximation of connected components”, **Sriparna Saha**, Pratyusha Rakshit and Amit Konar, *Applied Soft Computing*, Elsevier, ISSN: 1568-4946, April 2018, Volume 65, page(s): 554-576, DOI: <https://doi.org/10.1016/j.asoc.2018.01.043>, Impact Factor: 3.541.

b. Papers presented at conferences

- “Static Video Summarization Using Artificial Bee Colony Optimization”, Tanuka Bhattacharjee, **Sriparna Saha**, Amit Konar and Atulya K. Nagar, *Symposium Series on Computational Intelligence*, IEEE, Electronic ISBN: 978-1-5386-9276-9, Date of Conference: 18 Nov.-21 Nov. 2018, page(s): 777-784, DOI: 10.1109/SSCI.2018.8628784.
- “Gesture Driven Remote Robot Manoeuvre for Unstructured Environment”, **Sriparna Saha**, Rimita Lahiri, Amit Konar and Atulya K. Nagar, *Symposium Series on Computational Intelligence*, IEEE, Electronic ISBN: 978-1-5386-9276-9, Date of Conference: 18 Nov.-21 Nov. 2018, page(s): 1793-1800, DOI: 10.1109/SSCI.2018.8628867.

c. Book Chapters

“Neural Network Based Physical Disorder Recognition for Elderly Health Care”, **Sriparna Saha** and Raktim Das, *Computational Intelligence for Pattern Recognition*, Springer, ISBN 978-3-319-89629-8, July 17, 2018, pages(s): 321-339, DOI 10.1007/978-3-319-89629-8.

d. Books Authored

“Gesture Recognition: Principles, Techniques and Applications Series”, Amit Konar and **Sriparna Saha**, *Studies in Computational Intelligence*, Springer, ISBN 978-3-319-62212-5, 2018, page(s): 1-289, DOI: 10.1007/978-3-319-62212-5.

Seminars/ Conferences attended

a. As participant

- National Seminar & Exhibition on Defence Production during 14th – 15th September, 2018.
- IEEE Symposium Series on Computational Intelligence during 18th – 21st November, 2018.

- iii. International Conference MSAST 2018 during 21st – 23rd December, 2018.
- iv. Workshop on NBA & NAAC Accreditation under TEQIP-III during 3rd – 7th January, 2019.
- v. Workshop on Cryptography And Cybersecurity during 12th – 16th February, 2019.

b. As seminar Chairman/ Co- Chairman

Session Chair in IEEE International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019) from 19-20 March 2019.

c. As invited Speaker

Lecture in special topics of engineering and technology in the department of Information and Technology of Institute of Engineering and Management, Gurukul Campus on 8th August, 2018

B.Tech Projects guided

Title of the project	Name of the students	Submission month
Design of an Autonomous Car	Ivana Mondal, HemalTarasHansda, Sourav Dutta, Saptarishi Roy	May'2018
Automatic Face Hiding from Videos to Ensure Privacy	Jay Karia, Romit Shaw	May'2019

M.Tech Projects guided

Title of the project	Name of the student	Submission month
Implementation of Machine Learning in A Hybrid Sensor Architecture for Motor Rehabilitation	Ahona Ghosh	May'2018

Other Academic Achievements

Title of the Major Project	Sponsoring Agency	Period	Grant mobilized
Towards cognitive rehabilitation: an interpretation based on sensory perception	UGC Basic Scientific Research (BSR) – Start-Up Grant No.F.30-449/2018(BSR) dated 27 th March 2019	27/03/19 - 26/03/21	10 lakhs

Ms. Sayantani Saha, Assistant Professor

Mrs. Sayantani Saha has joined as an Assistant Professor in Department of Computer Science and Engineering, Maulana Abul Kalam Azad University of Technology formally known as West Bengal University of technology (WBUT),



India in 2018. She is currently pursuing PhD degree in Computer Science & Engineering Department from Jadavpur University.

She has completed her B.Tech degree from RCC Institute of Information Technology in 2008 and MTech degree in Distributed and Mobile Computing from Jadavpur University in 2010. She has nearly two years of industry experience, four years of research experience and around two years of teaching experience. She has worked as a programmer Analyst in Cognizant Technology Solutions Pvt Ltd. From 2010 to 2012. After that, she joined Jadavpur University as a research scholar. She was associated with “Remote Health: A Framework for Health-care Services using Mobile and Sensor-Cloud Technologies” project funded by ITRA, MHRD. Previously she was an assistant Professor at B. P. Poddar Institute of Management & Technology.

She has published her research work in several international conferences and journals. Her area of research interest is in data security, access control, mobility management, Wireless Sensor Network etc.

Conference Paper:

Cost-Based Model for Secure Health Care Data Retrieval: 6th International Symposium, SSCC 2018, Bangalore, India, September 19–22, 2018, Revised Selected Papers.

Seminars/ Conferences attended

As participants: Attended Global Blockchain Congress - Consensus 2018 on 18th & 19th December 2018.

Training Programme/ Workshop organised : MACHINE LEARNING WITH PYTHON :A Deep Learning Approach 25-March-2019 - 29-March-2019 in MAKAUT, WB.

B. Tech Projects guided : “Android Game: Racing Manager”



Ms. Rupali Patua, Assistant Professor

Ms. Rupali Patua has obtained B. Tech and M.Tech from Maulana Abul Kalam Azad University of Technology formerly West Bengal University of Technology (WBUT).

She is working as an Assistant Professor in the department of Computer science and engineering of Maulana Abul Kalam Azad University of Technology. Before joining to Maulana Abul Kalam Azad University of Technology she worked with IT industry in Cognizant Technology Solutions.

Dr. Pradyut Sarkar, Associate Professor

Academic Qualifications :

Ph.D (Tech) in Computer Science and Engg. from Jadavpur University, 2016
M.Tech & B.Tech in Computer Science and Engg. from Calcutta University, 2002 & 2000 respectively

Area of Research :

- Big data analysis and cyber security



- Quantum Machine learning
- Testing and Synthesis of Reversible Circuits
- Quantum Circuit & cryptography
- Data mining.

Experience:

i) Industry Experience :13 years

Position: Sr. Manager (IT)

Organization: Simplex Infrastructures Limited

Position : Assistant Manager (R&D)

Organization: Simplex Infrastructures Limited

ii) Teaching Experience : 6 years

Awards:

Received certificates from All India Science Teachers' Association for success in Science Aptitude & Talent Search Test in 1991 and 1992.

List of Publications: Published 15 papers in international Journal and conference

Seminars/ Conferences attended

As session Chair in an international conference

Ph.D. guided : One student

B.Tech Projects guided: 6 students

M.Tech Projects guided : 12 students

Support Staff In The Department

Ms. Chumki Das, Technical Assistant, Diploma, AMIE, M.Tech (VLSI Technology).

Ms. Sumana Chakraborty, Technical Assistant, MCA.

Mr. Subhasis Sengupta, Technical Assistant, AMIE, M.Tech.(CSE).

Mr. Pritimoy Sanyal, Technical Assistant, B.Sc(H), MCA, M.Tech

Department of Information Technology

Department of Information Technology, MAKAUT, WB

Program details

BTech 4th Year (No. of students: 22)

BTech 3rd Year (No. of students: 31)

BTech 3rd Year (No. of students: 24)

MTech (IT) 1st Year (No. of students: 06)

MTech (IT) 2nd Year (No. of students: 10)

MTech (CSIS) 2nd Year (No. of students in 4th Sem: 8)

Faculties engaged in the programmes

Regular (03)

Staff details of the department. Technical staff (03), Office staff (02)

Project Title	Name of Supervisor
Wireless body local area network (WBLAN)	Dr. Suparna Biswas
Psychometric App	Mr. Saikat Basu
Attendance Management System	Dr. Pradyut Sarkar
Amazon apparel clothing system	Mr. Shantanu Chatterjee
Psychometric App	Mr. Saikat Basu
Kolkata sub	Mr. Subhanjan Sarkar
Alumni website	Dr. Amiya Karmakar
Alumni website	Dr. Amiya Karmakar
Digital Conscious Using Cloud Based Hash Generation	Dr. Debashis De
Image Encryption Technique using chaotic function	Dr. Debasis giri
Lung Cancer Detection	Mr. Mihir Sing
Lung Cancer Detection	Mr. Mihir Sing
Estimation of important parameter influencing photovoltaic insolation in a microclimatic region	Dr. Madhumita Das Sarkar
AppIDE	Dr. Sujoy Mistry
Fake News Detection	Dr. Shantanu Phadikar
Smart Medical Clinic	Dr. Sayantani Saha
Prediction of weather using time series data Analysis	Dr. Somdatta chakravorty
Prediction of weather using time series data analysis	Dr. Somdatta Chakravorty

Prediction of weather using time series data Analysis

Somdatta Chakravortty

Post-graduate projects of the department (Title of the project, name of supervisor)

MTech (IT)

Title of the project	Name of supervisor
Classify the movement of human being into normal and suspicious	Ms. Rupali Patua
Security of medical images	Mr. Mihir Sing
Location-aware Music Crowdsensing in Internet of Things	Prof. Debashis De
Energy Efficient scheduling in Cloud Computing	Mr. Santanu Chatterjee
Efficient energy management of wireless sensor network for the internet of things	Dr. Suparna Biswas
Reversible data hiding for 3D images	Mr. Mihir Sing
Classification of the skin disease using machine learning approach	Dr. Suparna Biswas
Predicting risk level of cancer patients using gene expression analysis	Dr. Sriyankar Acharyya
A state-of-the-art paradigm on eHealthcare-inspired Headache Information System	Mr. Saikat Basu
Rise disease classification	Dr. Santanu Phadikar

MTech (CSIS)

Title of project	Name of Supervisor
Handwritten Word and Character Segmentation towards Writer Verification	Mr. Abhisek Hazra
Development of an Offline Signature Verification and Complexity Analysis System	Mr. Abhisek Hazra
Design of secure campus network-Perimeter Security	Mr. Anupam Chanda
Design of secure campus network-securing Internal Components	Mr. Anupam Chanda
Application of Machine Learning in Cyber Security	Dr. Arun Jana
Deception Detection in Text	Mr. Bibekanda Kundu
Development of Handwriting Behavioural Analysis System of an Offline Document	Mr. Abhisek Hazra
Network Printer Security and Monitoring	Mr. Sourav Mitra



Workshop on Cryptography and Cyber Security

Ph.D. programme

- i) Ms. Dipanwita Ghosh, Name of Supervisor: Dr. Somdatta Chakravortty
- ii) Ms. Srirupa Das, Name of Supervisor: Dr. Somdatta Chakravortty
- iii) Mr. Prem Kumar, Name of Supervisor: Dr. Somdatta Chakravortty
- iv) Ms. Dipika Dhara, Name of Supervisor: Dr. Somdatta Chakravortty

Seminar/ Workshops/ Training Programme organised by the department.

- i) Cryptography and Cyber security during February 12-16, 2019
- ii) Machine Learning with Python: A Deep Learning Approach during March 25- 29, 2019

Visit of academicians/ Scientists/ Technologist to the department.

- (i) Prof. Bimal Kumar Roy, Indian Statistical Institute, Kolkata, India
- (ii) Prof. Anthony TS Ho, University of Surrey, UK
- (iii) Prof. Feng Hao, University of Warwick, UK
- (iv) Prof. Al-Sakib Khan Pathan, Southeast University, Bangladesh
- (v) Dr. Amit Chaudhuri, C-DAC, Kolkata, India
- (vi) Prof. Dipanwita Roy Chowdhury, IIT Kharagpur, India
- (vii) Dr. Prosun Prodhan, Redhat
- (viii) Dr. Sourya Ghosh, Cisco Network Academy
- (ix) Dr. Tanushyam Chattopadhyay, TCS, Kolkata
- (x) Prof. Dinabandhu Bhandari, Heritage Institute of Technology, Kolkata
- (xi) Prof. Rajat De, ISI, Kolkata

(xii) Prof. Ujjwal Bhattacharya, ISI, Kolkata

(xiii) Dr. Ahsan Hussain, Islamic University of Science and Technology, Jammu & Kashmir

Visit of faculties to other Institute, Industries, and Universities.

- i. Dr. Debasis Giri: visited to Islamic University of Science and Technology, Jammu & Kashmir
- ii. Dr. Debasis Giri: visited Panskura Banamali College as BOS
- iii. Dr. Debasis Giri: Program chair of the International Conference on Mathematics and Computing, KIITs, Ordisa
- iv. Dr. Debasis Giri, Program Chair of the International Conference on Information Technology and Applied Mathematics, Haldia, WB
- v. Dr. Somdatta Chakravorty: Heritage Institute of Technology as University Nominee in their Board of Governors
- vi. Dr. Somdatta Chakravorty: Session Chair in International Conference at Govt. College of Engineering and Leather Technology, Kolkata
- vii. Dr. Somdatta Chakravorty: Conduction of Theory and Practical Classes of M.Tech(IT) at Govt. College of Engineering and Ceramic Technology, Kolkata



Dr.(Mrs) Somdatta Chakravorty, Associate Professor

Somdatta Chakravorty received the B.Tech. degree from Kanpur University, Kanpur, India, in 1997, the M.Tech. degree in Information Technology from Bengal Engineering and Science University, Sibpur, India, in 2002, and the Ph.D. degree in Computer Science and Engineering from Calcutta University, Kolkata, India, in 2017. She is presently Associate Professor in Information Technology and is with Maulana Abul Kalam Azad University of Technology, West Bengal, India.

She has worked in the industry for four years and has been teaching in Govt. and Private Engineering Colleges and University since 2003 till date. She has authored several research papers in International and National Journals, Book Chapters, International and National level Conferences. She has several research projects funded by the Department of Science and Technology, University Grants Commission, and All India Council of Technical Education, Govt. of India, which focuses on research related to hyperspectral image analysis, machine learning and natural resource management. Her current research interests include hyperspectral image analysis, machine learning and image fusion. She is a member of professional societies such as the Indian Society of Remote Sensing, Computer Society of India and Institute of Engineers and is actively involved in organizing chapter-related activities of the society.

Papers published in journals

- DAEN: Deep Autoencoder Networks for Hyperspectral Unmixing in IEEE Transactions of Geo-Science and Remote Sensing(2019), DOI: [10.1109/TGRS.2018.2890633](https://doi.org/10.1109/TGRS.2018.2890633)

- Change Prediction and Modeling of Dynamic Mangrove Ecosystems Using Hyperspectral Imagery in IEEE Geoscience and Remote Sensing Letters(2019)(accepted)

Book Chapters

‘Change Detection of Tropical Mangrove Ecosystem with Subpixel Classification of Time Series Hyperspectral Imagery’ by D. Jude Hemanth (eds) in Artificial Intelligence Techniques for Satellite Image Analysis” in the Remote sensing and Digital Image Processing Series (Springer), 2019.

Seminars/ Conferences attended

As member of the organising committee

- International Conference on Emerging Technologies for Sustainable Development during 5th -6th March, 2019 organised by Govt. College of Engineering & Ceramic Technology, Kolkata

As invited Speaker

- International Conference on Digital Pedagogies (ICDP 2019) at New Delhi during 1st – 3rd April, 2019 sponsored by MHRD, Govt of India

Ph.D. guided

Two students enrolled for Ph.D under supervision in MAKAUT,WB

Courses designed

- (i) Revised Courses of B.Tech. and M.Tech(CSE & IT) and proposed B.Sc courses in IT for 2019-20 session for University(in-house) and Affiliated Colleges

Training Programme/ Workshop organised

- 1 week workshop on Cryptography and Cyber Security from 12th January-16th January, 2019 sponsored by TEQIP-III at Main Campus, MAKAUT,WB
- 1 week workshop on Machine Learning with Python: A Deep Learning Approach from 25th -29th March, 2019 sponsored by TEQIP-III at Main Campus, MAKAUT,WB
- 1 day workshop on ‘Digital Pedagogies-A Learners Future’ on 24th April, 2019 sponsored by TEQIP-III at Main Campus, MAKAUT,WB

MOOCS completed/ Registered

- (i) Registered in ‘Fundamentals of Digital Image and Video Processing’ – Coursera
- (ii)Registered in ‘Machine Learning with Python’ – Coursera

B.Tech Projects guided

- (i) Weather Prediction of Kalyani Region with Machine Learning Models
- (ii) Rainfall prediction with Machine Learning

Other Academic Achievements

Research Project(ongoing)

Funding Agency	Type of Project	Project Title	Role in Project	Grant Sanctioned (Rs.)
Department of Science & Technology, Govt. Of India, New Delhi	Major Research Project	Development of algorithms for spectral unmixing and sub pixel classification of hyperspectral image data	Principal Investigator	35,02,400/-

- (i) Editor of University Newsletter “Vibrance”
- (ii) Executive Editor of University Research Journal “Tech Vistas”

Dr. Debasis Giri, Associate Professor

Dr. Debasis Giri is currently working as an Associate Professor in the Department of Information Technology, Maulana Abul Kalam Azad University of Technology (Formerly known as West Bengal University of Technology) , West Bengal, India. Prior to this, he also held academic positions as Professor in the Department of Computer Science and Engineering and Dean in the School of Electronics, Computer Science and Informatics, Haldia Institute of Technology, Haldia, India. He did his M.Tech from IIT Kharagpur, India, and also completed his Ph.D from IIT Kharagpur, India. He is tenth all India rank holder in Graduate Aptitude Test in Engineering (GATE) in 1999. He received a certificate from All India Science Teachers’ Association in Science Aptitude & Talent Search Test in 1988. His current research interests include Cryptography, Information Security, E-commerce security and Design & Analysis of Algorithms. He has authored more than 70 research papers in reputed international journals and conference proceedings. He is editorial board member and reviewer of many International journals. He is also program committee member of several international conferences. He is a member of IEEE, and a life member of Cryptology Research Society of India, and the International Society for Analysis, its Applications and Computation (ISAAC).



Publication details

a. Papers published in journals

- Tanmoy Maitra, Debasis Giri and Ram N. Mohapatra, "SAS-SIP: Secure Authentication Scheme based on ECC and Fuzzy Extractor for Session Initiation Protocol", Cryptologia (Taylor & Francis), Volume 43, No. 3, 2019
- Subrata Dutta, M. S. Obaidat, Keshav Dahal, **Debasis Giri** and Sharmishtha Niyogi, M-MEMHS: Modified Minimization of Error in Multi Hop System for Localization of an Unknown Sensor Nodes, IEEE Systems Journal, Vol. 13, No. 1, pp. 215-225, 2019
- Subrata Dutta, Mohammad S. Obaidat, Keshav Dahal, , Debasis Giri, and Sarmistha Neogy, Comparative Study of Different Cost Functions Between Neighbors for Optimizing Energy Dissipation in WSN, IEEE SYSTEMS JOURNAL, 2018, Vol. 13, No. 1, pp. 289-230, 2019
- D Dey, Debasis Giri, B Jana, T Maitra, RN Mohapatra, Linear feedback shift register-based multi-ant cellular automation and chaotic map-based image encryption, Journal of Security and Privacy-Wiley, Vol. 1, No. 6, pp. 1-11, 2018

- Partha Chowdhuri, Biswapati Jana and Debasis Giri, Secured Steganographic Scheme for Highly Compressed Color Image Using Weighted Matrix Through DCT, International Journal of Computers and Applications-Taylor & Francis, 1-12, 2018
 - Biswapati Jana, **Debasis Giri** and Shyamal Kumar Mondal, Dual Image based Reversible Data Hiding Scheme using (7,4) Hamming Code, Journal of Multimedia Tools and Applications-Springer, Vol. 77, No. 1, pp. 763-785, 2018.
- b. Papers presented at conferences
- Palash Ray and Debasis Giri, FP-CAPTCHA: A NOVEL CAPTCHA DESIGN SCHEME BASED ON FACE POINTS, accepted in the International Conference on Information Technology and Applied Mathematics, 2019.
- c. Book Chapters
- Mohammad S. Obaidat, Soumya Prakash Rana, Debasis Giri and Subrata Dutta, Biometrics Security and Internet of Things, Springer Publisher, 477-509, 2018
 - Mohammad S. Obaidat, Tanmoy Maitra and Debasis Giri, Biometrics Based on Healthcare Sensors, Springer Publisher, 337-354, 2018
 - Mohammad S. Obaidat, Tanmoy Maitra and Debasis Giri, Protecting the Integrity of Elections using Biometrics, Springer Publisher, 513-533, 2018

Seminars/ Conferences attended

As seminar Chairman/ Co- Chairman

- Program co-chair of the fifth International Conference on Mathematics and Computing (ICMC 2019), February, 6-9, 2019
- Program co-chair of the International Conference on Information Technology and Applied Mathematics (ICITAM 2019) is going to be a premier conference which is being organized during March 07-09, 2019

Training Programme/ Workshop organised

Workshop on Cryptography and Cybersecurity, February 12-16, 2019

B.Tech Projects guided

One (ongoing)

Department of Industrial Engineering & Management

Program details of the Department

Name of the programme: Master of Technology in Industrial Engineering and Management

No. of students:

1. 1st Year : 11 students
2. 2nd Year: 17 students

Faculties engaged in the programmes

1. Regular: Mr. Bivash Mallick, Assistant Professor & HOD, IEM Dept
2. Adjunct
 - a. Dr. Sibamay Dasgupta, Adjunct Professor
 - b. Dr. Sourav Das, Adjunct Associate Professor

3. Visiting: Mr. Biswanath Chakraborty

Staff details of the department

- a) Mithun Ghosh, Technical Assistant
- b) Chinmoy Mondal, Data Entry Operator
- c) Bholanath Ghosh, Support Staff

Post graduate projects of the department (Title of the project, name of supervisor)

1. A framework for supply chain network of idol making Industry in the state of West Bengal.

Supervisor: Mr. Bivash Mallick

2. A study on the effect of ergonomics for the design of computer laboratory

Supervisor: Mr. Bivash Mallick

3. A framework for supply chain network of furniture Industry in the state of West Bengal, Supervisor: Mr. Bivash Mallick
4. Technical education in West Bengal under MAKAUT, WB: Current status and future potential

Supervisor: Mr. Bivash Mallick & Dr. Sourav Das

5. A Study of Manufacturing Quality Plan in fabrication shop

Supervisors: Mr. Bivash Mallick & Dr. Sourav Das

6. Design and Development of Mobile Software Application for Building Construction Materials,

Supervisor: Dr. Sourav Das

7. Development of Android Mobile Application for Automobile Safety Management

Supervisor: Dr. Sourav Das

8. Timetable optimization model for Academic Institutions,

Supervisor: Dr. Sourav Das

9. Multi-modal routes optimization using Fuzzy Multi-Criteria Decision Making Technique,

Supervisors: Dr. Sourav Das & Mr. Bivash Mallick

10. Implementation of Enterprise Resources Planning in an Academic Institution,

Supervisor: Dr. Sourav Das

11. Predicting future trends of renewable energy using text analytics approach,

Supervisor: Dr. Sourav Das

12. Application of Selective Control Techniques in Maintenance Shop,

Supervisors: Mr. Bivash Mallick & Dr. Sourav Das

13. Precise Documentation to Improve Usability of Software Packages,

Supervisor: Dr. Sourav Das

14. A study on the effect of ergonomics for the design of office chair

Supervisor: Dr. Sourav Das

15. Development of Maximum Power Point Tracker (MPPT) Controller using Modern and Intelligent Control Scheme for High Gain DC-DC Converter,

Supervisor: Mr. Bivash Mallick

16. Application of Control System in Inventory Management,

Supervisor: Dr. Sibamay Dasgupta



Mr. Bivash Mallick, Assistant Professor

Mr. Bivash Mallick is presently serving as an Assistant Professor as well as Head of the Department of Industrial Engineering & Management of Maulana Abul Kalam Azad University of Technology, West Bengal. He acquired B. Tech in the discipline of Mechanical Engineering from National Institute of Technology, Warangal and M. Tech in Production Engineering from Kalyani Govt. Engineering College. His ongoing Ph. D. thesis is based on 'Inventory management' registered at Jadavpur University. Before joining MAKAUT, he has taught in a private engineering college for 9 years. He has also served as Guest Faculty in the Department of Power Engineering at Jadavpur University. Mr. Mallick bears more than 8 years of industrial experience in the field of Project Management with emphasis on welding & piping and in close association with Quality Management and implementation of ISO 9000 Standards. His fields of interest include Inventory Management, Quality Engineering & Management, Project Management, Operations Management and Optimization.

Publications

Papers published in journals

- "Application of the modified similarity-based method for multi-criteria inventory classification". Bivash Mallick, Sourav Das, Bijan Sarkar, Santanu Das, Decision Science Letters (2019). (Accepted for Publication)

Papers presented at conferences

- "A Comparative Study of Multi-criteria ABC inventory classification methods", Bivash Mallick, Sourav Das, Bijan Sarkar, Santanu Das, National Conference on Trends and Advances in Mechanical Engineering, organised by The Association of Engineers, India and Kalyani Government Engineering College, during February 15-16, 2019 at Kalyani Government Engineering College, Kalyani.

Seminars/ Conferences attended

As participant

- International Conference on Digital Pedagogies (ICDP 2019), New Delhi, during 01st - 03rd April, 2019.
- Training workshop on Academic MIS, jointly organised by National Project Implementation Unit (NPIU) and State Project Implementation Unit, North East (SPIU-NE), during March 15- 16, 2019 at Indian Institute of Information Technology Guwahati (IIITG), Guwahati, Assam.
- Workshop on “NBA/ NAAC Accreditation” organized by Engineering Staff College of India and Maulana Abul Kalam University of Technology, West Bengal during January 3-7, 2019 at Maulana Abul Kalam University of Technology, West Bengal.
- Workshop on “SAS Programming & SAS Predictive Modelling” conducted by Institute of Business Management in collaboration with Hands-On System during November 16-17, 2018.
- Faculty and Executive Development programme on “Modern International and Digital Marketing: Practices and Software Tools-a Global Vision” organized by Cambridge Marketing College, UK and Maulana Abul Kalam University of Technology, West Bengal during September 28-30, 2018 at Maulana Abul Kalam University of Technology, West Bengal.

MOOCS completed/ Registered

Completed:

(xiv) MCDM Techniques Using R

(xv) Introduction to Research

Registered

(xvi) Teaching and Learning in Engineering (TALE)

M.Tech Projects guided : 6 (Six)

New laboratory set up (in progress)

(xvii) Work System Design Lab

Quality Design & Control Lab

Dr. Sourav Das, Adjunct Associate Professor

Dr. Sourav Das is currently working as an Adjunct Associate Professor in Maulana Abul Kalam Azad University of Technology, West Bengal. Previously, he worked as a senior data analyst in the Operations Research Department at Norfolk Southern. Dr. Das has worked on developing and implementing models for locomotive fleet planning, car scheduling, demand forecasting, rail yard simulation and optimization, locomotive dispatching, and empty railcar distribution. He has a PhD in Industrial Engineering from Clemson University, USA and completed M.Tech and BE from Indian Statistical Institute, Kolkata and Indian Institute of Engineering Science and Technology, Howrah respectively. His fields of interest include Operations Research, Forecasting, Logistics and Transportation, Stochastic models, Simulation Modelling and Analysis



Publication details

Papers published in journals

- “Application of the modified similarity-based method for multi-criteria inventory classification”. Bivash Mallick, Sourav Das, Bijan Sarkar, Santanu Das, Decision Science Letters (2019). (Accepted for Publication)

Seminars/ Conferences attended

As participants

- Workshop on “NBA/ NAAC Accreditation” organized by Engineering Staff College of India and Maulana Abul Kalam University of Technology, West Bengal during January 3-7, 2019 at Maulana Abul Kalam University of Technology, West Bengal.

- Workshop on “SAS Programming & SAS Predictive Modelling” conducted by Institute of Business Management in collaboration with Hands-On System during November 16-17, 2018.
- Faculty and Executive Development programme on “Modern International and Digital Marketing: Practices and Software Tools-a Global Vision” organized by Cambridge Marketing College, UK and Maulana Abul Kalam University of Technology, West Bengal during September 28-30, 2018 at Maulana Abul Kalam University of Technology, West Bengal.

MOOCS completed/ Registered

Registered

- MCDM Techniques Using R
- Data Analysis & Decision Making – II
- Probability and Statistics

M.Tech Projects guided : **8 (Eight)**

New laboratory set up : (in progress)

- Simulation Lab
- Product Development lab

Support Staff In The Department

Mr. Mithun Ghosh, Technical Assistant, B.Com., MCA, Helping in conducting practical classes & Machine Management.

School of Biotechnology & Biological Sciences

Department of Biotechnology

The Department of Biotechnology was established in 2003 with a view to developing a center of excellence for education and research in biotechnology. In so doing, a four-semester AICTE-approved and DBT supported M.Tech. programme in Biotechnology was started with students qualifying in the All India level Combined Biotechnology Entrance Examination (CBEE) conducted by Jawaharlal Nehru University, New Delhi. It is pertinent to mention that WBUT and Annamalai University are the only two centers in the country in M.Tech Biotechnology supported by the Department of Biotechnology, Government of India. Recently the School of Biotechnology has been accorded the financial assistance under the FIRST program of the Department of Science & Technology (Govt, of India) .

The M. Tech programme took off successfully in early 2003. A modest infrastructure has been developed with the financial support from WBUT and other national funding agencies viz., DBT, BRNS, AICTE, CSIR and DST. In 2005, the Department of Bioinformatics was started with a four semester AICTE approved M.Tech programme [M.Tech. in Bioinformatics). The School of Biotechnology (recently renamed School of Biotechnology and Biological Sciences) was set up in 2006 for all-round development of Biotechnology and Bioinformatics.

The main focus of the School of Biotechnology & Biological Sciences is education and training of students in various facets of frontier Science. The post-B.Sc. integrated Ph.D courses in Molecular Biology and Microbiology are the other important courses under this School. A *Centre for Genetic Studies* is run where outreach activities in the form of diagnosing and counselling of patients suffering from genetic disorders is carried out. In 2007 a workshop sponsored by ICMR was also conducted in this area. Considering the excellent response and demand of the students plans of enhancing the number of seats alongwith the laboratory facilities will be the future goal of the School. Post-B.Sc. Integrated PhD programme in Genetics has also been started.

Program details of the Department

- M.Tech Biotechnology
- M.Sc Microbiology
- M.Sc Molecular Biology
- M.Sc Genetics

Faculties engaged in the programmes

Sr No	Name of faculty	Status	Name of the programme	No. of students
1.	Dr. Rina Rani Ray (Head)	Regular	M.Sc and M. Tech	54
2.	Prof .Raja Banerjee*	Regular	M.Sc and M. Tech	54
3.	Dr. Jaya Bandyopadhyay	Regular	M.Sc and M. Tech	54
4.	Dr. Ranjita Biswas	Regular	M.Sc and M. Tech	54
5.	Dr. Tufan Naiya	Regular	M.Sc and M. Tech	54
6.	Dr. Smarajit Das	Regular	M.Sc and M. Tech	54
7.	Dr. Debdut Naskar	Regular	M.Sc and M. Tech	54
8.	Dr. Arunava Mandal	Regular	M.Sc and M. Tech	54
9.	Prof. Arup Mukherjee	Adjunct faculty	M.Sc and M. Tech	54
10.	Sri Biswanath Chakraborty	Guest teacher	M.Sc and M. Tech	54

Staff details of the department

Dr. Amit Chakraborty.....Project Officer

Smt. Anima Halder..... Office Assistant

Post graduate projects of the department

Title of the project	Name of supervisor
Tomato leaf curl virus infection in laboratory conditions to study the regulation mechanisms of pathogenesis related genes.	Dr. Arunava Mandal
Molecular pathway analysis of regulation of HBD-3 expression in gastric epithelium upon bacterial infection.	Dr. Debdut Naskar
Complete genome analysis for consolidated bioprocessing of lignocellulose by <i>Thermoanaerobacterium</i> sp RBIIT.	Dr. Ranjita Biswas
Study on the interaction mechanism of Fullerol fused temozolomide in biological systems and the underlying signalling pathway (s)	Dr. Jaya Bandyopadhyay
Study of bioremediation of Arsenic and Iron toxicity by a newly isolated bacterial strain	Dr. Rina Rani Ray
Engineered Nanoparticles and small molecules for inhibition of protein fibrillation	Prof .Arup Mukherjee



Biotech Building at Haringhata Campus

Ph.D. programme

Investigator	Name of scholar	Thesis/ Project Title
Dr. Jaya Bandyopadhyay	Kunal Biswas RA, TEQIP III	Investigation on the physico-chemical aspect of carbon-based nanomaterials and its impact on the biological systems
	Jyotirmoy Rakshit Ph.D Scholar	Study the Functional aspect of Deferoxamine against oxidative stress induced neurotoxicity by modulating Apoptotic and non-apoptotic pathways
	Swati Sinha Ph.D Scholar; In Service	Study of interaction properties of synthetic oligonucleotides with carbon nanotubes and their impacts on <i>Caenorhabditis elegans</i>
	Sourav Pakrashi In Govt. Service	Micro RNA mediated gene regulation in neurodegeneration
	Joyeeta Chakraborty RA, TEQIP III	Evaluation of ameliorative activities of polyphenols against heavy metal induced neurotoxicity: A therapeutic approach
	Swagata	Amyotrophic Lateral Sclerosis: Epidemiology Survey and TDP-

	Roychowdhury RA, TEQIP III	43 Detection in Plasma, Body Fluids, Cells and CSF of West Bengal Population
	Tanaya Paul Ph. D Scholar	Reproductive and developmental toxicity of phthalate esters on <i>Caenorhabditis elegans</i>
Dr. Ranjita Biswas	Ananya Khan	Metallic nanomaterials to improve probiotics efficacy.
Dr. Rina Rani Ray	Amrita Jasu (in WB DBT Project)	Bioremediation strategies on metal tolerance of a new bacterial isolate with special reference to Hexavalent chromium.
	Dibyajit Lahiri (in service)	Studies on bioactive antibiofilm compounds from natural sources.
Dr. Tufan Naiya	Nilkanta Chatterjee	Conventional and molecular detection of viable tubercle bacilli in milk, meat and product of animal origin
	Khusman Taunk	Investigation of potential targets for triple negative breast cancer through proteomic and molecular approaches.



National Workshop on "Sustainable Food Processing Technologies"

Research projects with the department

Title of the project	Name of supervisor	Amount of fund (Lakh)
Studies of bioremediation strategies based on the multi metal tolerance of a new bacterial isolate	Dr. Rina Rani Ray	19.9
Investigation of the activity of graphene and its derivatives towards the biological systems with	Dr. Jaya Bandyopadhyay (Principal Investigator); Prof. Debashis De	22.66

special relevance to <i>C. elegans</i> ;	(Co- Investigator) & Dr. Tufan Naiya (Co-Investigator).	
Establishing importance of Wnt signaling in the maintenance of immune functions of Intestinal epithelial cells and therapeutic approach against intestinal diseases.	Dr. Debdut Naskar	35
Development of <i>Thermoanaerobacterium</i> sp. RBIITD as a biorefinery platform strain for production of n-butanol and butyrate.	Dr Ranjita Biswas	88
Utilize a CRISPR cas tools for redirecting metabolic flux in <i>Thermoanaerobacterium</i> sp RBIIT for biobutanol production.	Dr Ranjita Biswas	162

Seminar/ Workshops/ Training Programme organized by the department.

National Workshop on “Sustainable Food Processing Technologies” Held on 21-22 February, 2019. Organized by: Dept. of Biotechnology, MAKAUT, WB

Visit of academicians/ Scientists/ Technologist to the department

Brewery Head, United Brewery, Kalyani.
Mr Sudip Kundu HR Manager, United Brewery Limited.

Visit of faculties to other Institute, Industries, and Universities.

Dr. Ranjita Biswas

- Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, Oct 9 th 2018.
- Department of Water Technology, CSIR-Central Glass and Ceramic Research Institute, Kolkata, Feb 22, 2019.
- Dairy Engineering, Faculty of Dairy Technology, West Bengal University of Animal and Fishery Sciences, Haringhata, Dist-Nadia (W.B.), Mar 22, 2019.

Dr. Debdut Naskar

- Department of Biophysics, Kalyani University

Dr. Arunava Mandal

- Department of Genetics and Plant Breeding, BCKV

Dr. Amit Chakraborty

- AB Mauri, India Pvt. Ltd, Kalyani
- United Brewery, Kalyani

* Head , Department of Bio informatics and Director, School of Biological Sciences. Hence the information is not again included under Dept of Biotechnology.

Dr. Jaya Bandyopadhyay, Associate Professor

Dr. Jaya Bandyopadhyay is currently working in the position of Associate Professor in the Department of Biotechnology, at Maulana Abul Kalam Azad University of



Technology, West Bengal (formerly WBUT). She has the experience in teaching in this department for more than 16 years almost from the very start of the academic activities that commenced in WBUT and more particularly from the very inception of the Biotechnology department way back in 2002. Currently her broad areas of research are Cell Biology & Molecular Development, Nanoscience, and other related subjects. Dr. Bandyopadhyay was awarded Ph.D in 1995 from the Department of Zoology (School of Life Sciences), Visva Bharati University, Santiniketan. She has post-doctoral trainings from South Korea (Chonnam National University and Gwangju Institute of Science & Technology, GIST) for more than 5 years (1995-2001) and further worked as a Visiting Scholar in GIST and Hanyang University, Seoul, South Korea for 1 year (2007-2008) under the Brain Pool Scheme funded by the Korean Federation of Science & Technology Societies (KOFST). She also worked in the Indian Institute of Chemical Biology (Kolkata) as a CSIR Senior Research Associate (CSIR Scientist's Pool Scheme) from 2001-2002 before joining as a Lecturer in WBUT. Presently, Dr. Bandyopadhyay has 7 Ph. D students working under her supervision in the fields of molecular aging and stress-induced neurodegeneration using both invertebrate (*C. elegans*) and mammalian systems, respectively. She also has one post-doctoral fellow (DST, N-PDF) awarded to Dr. Susmita Roy working on the immunomodulatory roles of candidate genes in Down Syndrome patients giving special emphasis to T cell activation. Furthermore, Dr. Bandyopadhyay is studying the interaction properties of DNA with various nanotubes and their impacts on *C. elegans*, and investigating the antibacterial activity of Graphene based nanomaterials and its impact on *C. elegans*. She is further exploring the molecular mechanism of metal / chemical induced neurotoxicity with a view to search natural products as promising drug candidates using mammalian cell systems. Her active research collaborators are Prof. (Dr.) Debashis De (Professor, CSE Department, MAKAUT, WB) and Dr. Soumalee Basu, Assistant Professor, Dept. of Microbiology, University of Calcutta.

Publication Details

Papers published in journals

- Jyotirmoy Rakshit, Arijit Mallick, Susmita Roy, Arpita Sarbajna, Moumita Dutta, Jaya Bandyopadhyay. 2019. Iron induced apoptotic cell death and autophagy dysfunction in human neuroblastoma cell line SH-SY5Y. *Biological Trace Element Research* (DOI: 10.1007/s12011-019-01679-6) (Accepted) Springer. [I.F. 2.361]
- Sinha, S., Biswas, K., De, D., Bandyopadhyay, J. and Sarkar, A. 2019. Metal to semimetal conversion by band structure engineering of SWCNT by DNA nucleobase functionalization. *Microsystem Technologies* (DOI 10.1007/s00542-017-3628-x) Springer, 25:1563-1570. [I.F. 1.58]
- Sanju Das, Yeasmin Sarkar, Snigdha Roy, Rini Majumder, Tanaya Paul, Jaya Bandyopadhyay, Ambarish Ray, and Partha Pratim Parui. 2019. Glutathione selective “off-on” fluorescence response by probe displaced modified ligand for its detection in biological domain. *New Journal of Chemistry*. (DOI 10.1039/C8NJ05784B) *Royal Society of Chemistry*, 43(9), 3750-3759. [I.F. 3.201]

Papers presented at Conferences

- (iv) Tanaya Paul*, Kunal Biswas, Sudhanshu Mishra, Swati Sinha and Jaya Bandyopadhyay. 2018. Thermo-chemical micro-sensing system of a biological model organism *C. elegans* towards a chemical stimulus. Paper presented in 7th International Conference on ‘Computing, Communication and Sensor Networks’, CCSN2018. Paper ID #07 (<https://ccsnmicro.wixsite.com/ccsn2018>).

Seminars/ Conferences attended

17. *Caenorhabditis elegans*, an emerging animal model for biosensing studies. Invited talk at the CCSN2018: 7th International Conference on Computing, Communication and Sensor Network, held at Biswa Bangla Convention Centre on 27th – 28th October, 2018; Session: “Biotechnology and Image Sensing”.

Acted as Session Chair and Judge for Technical Session II “Biotechnology and Image Sensing at CCSN2018 (<https://ccsnmicro.wixsite.com/ccsn2018>).

Ph.D. guided

Name	Thesis/ Project Title
Kunal Biswas RA, TEQIP III	Investigation on the physio-chemical aspect of carbon based nanomaterials and its impact on the biological systems
Jyotirmoy Rakshit Ph.D Scholar	Study the Functional aspect of Deferoxamine against oxidative stress induced neurotoxicity by modulating Apoptotic and non- apoptotic pathways
Swati Sinha Ph.D Scholar; In Service	Study of interaction properties of synthetic oligonucleotides with carbon nanotubes and their impacts on <i>Caenorhabditis elegans</i>
Sourav Pakrashi Ph.D Scholar; In Govt. Service	Micro RNA mediated gene regulation in neurodegeneration
Joyeeta Chakraborty RA, TEQIP III	Evaluation of ameliorative activities of polyphenols against heavy metal induced neurotoxicity: A therapeutic approach
Swagata Roychowdhury RA, TEQIP III	Amyotrophic Lateral Sclerosis: Epidemiology Survey and TDP-43 Detection in Plasma, Body Fluids, Cells and CSF of West Bengal Population
Tanaya Paul Ph. D Scholar	Reproductive and developmental toxicity of phthalate esters on <i>Caenorhabditis elegans</i>
Dr. Susmita Roy NPDF-SERB (DST) (Post-Doctoral Fellow)	The immuno-modulatory role of Down Syndrome Critical Region 1 (DSCR1) in the underlying immunodeficiency of Down syndrome

M.Tech / M.Sc Projects guided

No.	Name of Student	Title of the Project
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1	Shubham Nilkanth Kakde (<u>M.Tech</u>) (2019)	Study on the interaction mechanism of Fullerol fused temozolomide in biological systems and the underlying signalling pathway (s)
2	Sudhanshu Mishra (<u>M.Tech</u>) (2018)	Understanding the role of DR1 transcriptional repressor in oxidative stress-induced neurotoxicity: a targeted gene editing using CRISPR-Cas9 system in human SHSY5Y cell line
3	Nayan Pandey (<u>M.Tech</u>) (2018)	Functional and molecular characterization of Peptidyl - Prolyl cis/trans isomerase (<i>pinn-4</i>) in <i>C. elegans</i> with special emphasis to behaviour and development
4	Debasmita Saha (<u>M.Tech</u>) (2018)	Regulatory role of Down Syndrome Critical Region 1 gene (DSCR1) in mammalian cell line
5	Arghajit Biswas (<u>M.Tech</u>) (2018)	Evaluation of T cell polarization in Down Syndrome and their link with trisomic genes
6	Sreya Kar (M.Sc) (2018)	The study of the functional aspects of capsaicin against rotenone induced cytotoxicity in human SH-SY5Y cell line

Other Academic Achievements

R & D Project (2019-2022) on "Investigation of the activity of graphene and its derivatives towards the biological systems with special relevance to *C. elegans*" sanctioned by the Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal and under the supervision of Dr. Jaya Bandyopadhyay (Principal Investigator) & Prof. Debashis De (Co-Investigator) & Dr. Tufan Naiya (Co-Investigator).

Duration of Project: Three Years (3 years).

Total Budget: Rs. 22.66 Lakhs.

Research Collaborators:

- Professor (Dr.) Debashis De, Dept. of CSE, MAKAUT, WB.
- Dr. Soumalee Basu. Assistant Professor, Dept. of Microbiology, University of Calcutta, Kolkata.
- Dr. Partha Pratim Parui, Associate Professor, Dept. of Chemistry, Jadavpur University, Kolkata.
- Dr. Alak Pandit, MD, DM, Ph.D, Associate Professor, Bangur Institute of Neurosciences, Kolkata.
- Dr. Angsuman Sarkar, Associate Professor, Dept. of Electronics & Communication Engg., Kalyani Government Engineering College, Kalyani.
- Professor (Dr.) Pintu Sen, Professor, Material Science Section. Variable Energy Cyclotron Centre (VECC), Kolkata.
- Professor (Dr.) Tarun Kanti Bhattacharyya, Professor, Dept. of Electronics & Electrical Communication Engineering, IIT, KGP.
- Dr. Samir Chandra Das, Centre of Research in Nanoscience and Technology (CRNN), University of Calcutta.
- Prof. Akshay Kumar Bastia, Department of Botany, North Orissa University, BARIPADA, Orissa.



Dr. Raja Banerjee, *Director, School of Biological Sc, Professor & HoD Dept. of Bioinformatics*

Dr. Raja Banerjee, an organic chemist by training, has been working for ~23 years in the area of structural biology and proteomics towards understanding the sequence-structure-function relationship of proteins and their relevance. With the combined expertise of experimentation (using complementary spectroscopic tools) and computation directed towards answering specific biological questions of interest, his work includes design and characterization of peptides assessing the 'protein engineering' concepts, and the 'protein folding' principles. The concepts and observations acquired in his lab have been extended through development of new ideas for structure, function and interaction study with an effort to understand how local motifs (especially 'anion binding') contribute to the global function of protein utilizing non-covalent interactions. The central theme of his research expertise is designing therapeutic leads for diseases usually caused by protein folding/misfolding using the structure-based drug design strategy utilizing peptide based motifs.

Thrust area of Research: Structural Biology

Understanding Structure-Function & Dynamics of Biomolecules (Peptides / Proteins) towards designing Therapeutic leads

Expertise: Molecular Spectroscopy and Proteomics

Highlights of Current Research:

- Study of 'anion recognition' short peptide motifs: an attempt towards arsenic removal
- Characterization of structural motifs for understanding molecular determinants of amyloid plaques
- Characterization of structural aspect of melanin
- MSⁿ technique for de novo sequencing of proteins/natural peptides
- Effect of mutation in protein sequences towards formation of oral and breast cancer

Collaboration:

- Department of Chemistry. University of Padova, Italy
- Molecular Biophysics Unit; CDS Department and Bioinformatics Centre, IISc, Bangalore
- Department of Chemical Science, TIFR, Mumbai
- Department of Biophysics, Bioinformatics Centre, Bose Institute, Kolkata, India
- HGU and ASU at Indian Statistical Institute (ISI), Kolkata
- NCCS, Pune

- Department of Chemical Science, S.N. Bose Institute, Kokata, India

Ongoing Project Sanctioned as Principal Investigator

- Title: Study of recognition of arsenite and arsenate by designed anion-binding peptide scaffolds - implication towards removal of arsenic contamination

Funding agency: West Bengal State Council of Science & Technology under Swami Vivekananda Research Grant Award (SVRGA 2014)

Completed Project as Principal Investigator:

- Title: Understanding protein folding and ligand binding through study of peptide motif "NEST"

Funding agency: Dept of Biotechnology, Ministry of Science and Technology, Govt. of India

- **Title:** Design of 'anion recognition' short peptide motifs: an approach towards designing 'model scaffolds' for binding. (Thrust Area: Structural Biology)

Funding agency: Dept of Biotechnology, Ministry of Science and Technology, Govt. of India.

Number of student awarded PhD: One

Number of students completed MTech project : One

Attended DBT-National; Bioinformatics Network Meet at ICGB, New Delhi on 29th aug 2018

Outreach activity organized through SVRGA on 16th January 2019 at Bamanberia Village at Haringhata about Awareness on Arsenic

Set Bioinformatics Laboratory at Haringhata campus.

Taking an initiative for signing MOU between IISER-Kolkata and MAKAUT, WB for academic exchange

Several Industry visit for MTech students in 2018-19

List of Publications

- Interaction landscape of a 'C^αNN' motif with arsenate and arsenite: a potential peptide-based scavenger of arsenic; Subhankar Sahu, Tridip Sheet and **Raja Banerjee*** (2019) RSC Advances, 9, 1062–1074 (ISSN= 2046-2069; I.F =3.108 & Citation = 0)
- Quantum chemical studies on anion specificity of C^αNN motif in functional proteins; Piya Patra, Mahua Ghosh, **Raja Banerjee** and Jaydeb Chakrabarti (2018) J Comput Aided Mol Des., 32, 929-936. (ISSN= 0920-654X (Print) 1573-4951 (Online); I.F 2.356 & Citation = 1)
- A machine learning approach towards the prediction of protein-ligand binding affinity based on fundamental molecular properties; Indra Kundu, Goutam Paul and **Raja Banerjee*** (2018) RSC Advances., 8, 12127–12137 (ISSN= 2046-2069; I.F =3.108& Citation = 3)
- TLR11 or TLR12 silencing reduces Leishmania major infection; Divanshu Shukla, Himanshu Singh Chandel, Sunit Srivastava, Prashant Chauhan, Surya Prakash Pandey, Ashok Patidar, **Raja Banerjee**,

Debprasad Chattopadhyay and Bhaskar Saha (2018) Cytokine;104:110-113. (ISSN= 1043-4666; I.F= 3.488 & Citation = 1)

Dr. Rina Rani Ray Associate Professor & HoD Dept. of Biotechnology

Dr. Rina Rani Ray, Associate Professor is at present working as Head, in the Department of Biotechnology, at Maulana Abul Kalam Azad University of Technology, West Bengal (formerly WBUT). She has done her Ph. D from Bose Institute in 1996. Dr. Ray has joined in West Bengal Education Service and served different Government Colleges including Presidency College and Bethune College for about 20 years before joining in MAKAUT, WB in 2017. She is working on microbial biotechnology mainly microbial production of value added materials, antimicrobials and microbial bioremediation. She has published a few papers in different reputed journals and successfully completed six research projects funded by various sponsoring agencies. Two students were awarded Ph. D under her solo guidance. Microbiology, Immunology and Neurobiology are her favourite topic for teaching. She is a member of different academic associations.



Publication details

a. Papers published in journals

- Ray R. R, Nag, M and Lahiri, D (2018) Comparative Study of the Antibiofilm Effect of plant extracts and antibiotic on *Staphylococcus aureus* ATCC 0352. International journal of basic and applied research. 8 : 419-427
- Karmakar, M, and Ray, R.R (2018) Fungal strain guided bottom-up synthesis of silver nanoparticles and elucidation of its anti-bacterial activity. International Journal of Pharmacy and Biological Sciences 8 (4) : 511-517

b. Papers presented at conferences

Sl	Name of the conference	Title	National/ International	Date
1.	NCRDNN 2019, Jadavpur University	The Efficacy of Green Synthesized silver Nanoparticles from <i>Allium cepa</i> and <i>Azadiractica indica</i> against Gram Positive and Gram negative bacterial biofilm in comparison with standard antibiotics Moupriya Nag, Shreyasi Ghosh, Indranil Mukherjee, Dibyajit Lahiri Rina Rani Ray.	National	Jan 29-31 2019
2.	Indian Science Congress, LPU University	Evaluation of Antibiofilm Activity of bioactive compounds from <i>Ocimum sanctum</i> against <i>Staphylococcus aureus</i> ATCC 0352 biofilm Bandita Dutta, Rina Rani Ray ,Moupriya Nag ,Dibyajit	National	Jan 3-7 2019

		Lahiri		
3.	43 rd Biophysical Society Meeting, ISSER Kolkata	Comparative Account of Antibiofilm Activity of Bioactive Compounds Isolated from <i>Clitoria ternatea</i> and Standard Antibiotics against <i>Porphyromonas gingivalis</i> Biofilms Isolated from teeth Moupriya Nag, Dibyajit Lahiri, Rina Rani Ray	National	Mar 15 -17 2019
4.	3 rd Regional State Science Congress,	Efficiency of Synergistic action of Plant Extracts over Green Synthesized Silver Nanoparticles as antibiofilm agent. Dibyajit Lahiri, Moupriya Nag, Rina Rani Ray*	National	Dec 18- 19 2018
5.	3 rd Regional State Science Congress,	Study on biofilm production by a multimetal tolerant new strain of <i>Klebsiella varicella</i> with potent bacteriocidal activity. Amrita Jasu and Rina Rani Ray*	National	Dec 18- 19 2018
6.	12 th International Conference on Mathematical for Advancement of Science & Technology	Evaluation of Formation of Gram-Positive Biofilm Formation and Elucidating the Antibiofilm Activity of Bioactive Compounds from <i>Ocimum sanctum</i> against <i>Staphylococcus aureus</i> Biofilm Dibyajit Lahiri, Rina Rani Ray*, Moupriya Nag	Internatio nal	Dec 21-23, 2018
7.	BIOSPECTRU M, 2018	Assessment of bactericidal efficacy and multimetal tolerance of a new strain of <i>Klebsiella varicella</i> Amrita Jasu and Rina Rani Ray*	Internatio nal	July, 27-28 2018
8.	National Symposium on Modern Perspectives of Research & Development in Biochemistry & Biophysics Kalyani University	Isolation and Characterization of protease enzyme from soil microorganisms. Parama Dasgupta and Rina Rani Ray.	National	March 14 - 15, 2019
9.	National seminar on Global strategy	Bacteriocin : A new horizon in food preservation. Somdeepa Chakraborty and Rina Rani Ray	National	March 23-24,

	for self sufficiency			2018
10	National seminar on Global strategy for self sufficiency	Post-harvest supply chain risk mitigation: modelling the barriers Meesha Singh and Rina Rani Ray	National	March 23-24, 2018

Seminars/ Conferences attended

a. As participant

- Presented paper in National Symposium on Contributions of Women in Sciences in India , 2018.
- Presented paper in National Management Conference on Global Strategy for Self-sufficiency, 2018
- Presented paper in 2nd International Conference BIOSPECTRUM, 2018. July, 2018

b. As member of the organising committee

- In Organising Committee of One Day seminar on Intelligent Earth and Deep Learning, March, 2018.
- Convenor of Anveshan 2018 (eastern region) Student Research Convention' launched by the Association of Indian Universities (AIU) , organised in MAKAUT, WB.

c. As seminar Chairman/ Co- Chairman

Session chair at International conference of BIOSPECTRUM, 2018

d. As invited Speaker

- Invited speaker in National Seminar on Recent Advances in Pharmaceutical Sciences and Research, April, 2018.
- Invited speaker in International Seminar in MSAST, December, 2018.

Ph.D. guided

Name	Thesis/ Project Title
Amrita Jasu (in WB DBT Project)	Bioremediation strategies on metal tolerance of a new bacterial isolate with special reference to Hexavalent chromium
Dibyajit Lahiri (in service)	Studies on bioactive antibiofilm compounds from natural sources.
Parama Dasgupta (in service)	Studies on protease production from a newly isolated bacterial strain.

Courses designed

- As a member of BOS, designed the M.Sc **Microbiology** course in MAKAUT, WB
- At present a 6 months certificate course on “**Microbial Technology and Quality determination**” is being designed.

Working with an ongoing project from WB DBT “Studies of bioremediation strategies based on the multi metal tolerance of a new bacterial isolate”



Dr. Tufan Naiya, Assistant Professor

Dr. Tufan Naiya joined the Department of Biotechnology as an Assistant Professor in 2017. He graduated with B.Sc. (Hons) in Botany from Presidency College and then completed his M.Sc. in Molecular Biology & Biotechnology from Tezpur (Central) University with scholarship from DBT, Govt. of India. He completed his Ph.D degree in the field of Neurogenetics. He is a Life member of many Scientific Organizations like Indian Academy of Neurosciences and Indian Society for Human Genetics. His current research interests include Human Molecular Genetics, Population Genetics, In silico Drug Discovery, Nanobiotechnology etc.

Seminars/Conferences attended :

As a participant:

- Attended seminar on “Intelligent Earth and Deep Learning” held on 29th March, 2018.
- Attended International workshop on “New Innovations in Cloud and Fog Computing” held during 4th May 2018 to 7th May 2018.
- Attended workshop on “NBA and NAAC Accreditation” held during 3 January, 2019 to 7th January, 2019.
- Attended workshop on Intellectual Property Rights on 15th March, 2019.

As a member of organizing committee:

- Workshop on Sustainable Food Processing and Technologies during 21st February 2019 to 22nd February, 2019.

PhD Guidance:

One Registered
One Enrolled

Dr. Debdut Naskar, Assistant Professor

Dr. Debdut Naskar joined the Department of Biotechnology as assistant professor in 2018. He received PhD from the Department of Biotechnology, University of Calcutta in 2015 while he conducted his research work at CSIR-Indian Institute of Chemical Biology, Kolkata. During his PhD he focused on the cellular signaling network contributing to the innate immune functions in macrophage. Then he went to the Department of Immunobiology of University of Arizona, USA as post doctoral researcher and studied the gut microbiota mediated arthritis development in mice model and therapeutic potential of synthetic retinoid molecule in the treatment of arthritis. During the period encompassing both PhD and Post doctoral period, he published several high impact research articles in the Journals like Journal of Immunology, PNAS, Cell Host &



Microbes etc. Later on he received the prestigious DST Inspire faculty award in 2017 and joined to National Institute of Technology, Rourkela as Inspire faculty where he focused mainly on cellular signaling network that regulate immune function in intestinal epithelial cells and currently he is continuing that project in this university as principal investigator. His current research interests include Cell signaling in intestinal diseases and three dimensional primary cell culture.

Courses designed

- Designed new course on “Data analysis using statistical software” for M.Sc students as part of the curriculum.

Training Programme/ Workshop organised

- National Workshop on “Sustainable Food Processing Technologies” Held on 21-22 February, 2019
Organized by: Dept. of Biotechnology, MAKAUT, WB

M.Tech Projects guided

- Currently supervising one M.Tech project entitled as “ Molecular pathway analysis of regulation of HBD-3 expression in gastric epithelium upon bacterial infection.”

New laboratory set up

- Immunobiology Research and practical laboratory at Biotech Building (Room no: 206)

Dr. Arunava Mandal, Assistant Professor

Dr. Arunava Mandal did Integrated M.Sc-Ph.D degree in Plant Molecular Biology and Biotechnology from Bose Institute. Further, he also worked as a National Postdoctoral fellow in National Institute of Plant Genome Research, New Delhi after his Ph.D. He joined as an Assistant Professor in the Department of Biotechnology in Maulana Abul Kalam Azad University of Technology since July 2018. Apart from this, he had received several “Best Poster Awards” and “Travel Grant Award” from national and international organizations.



Publication details

Papers published in journals

Author(s)	Title	Name of Journal	Volume	Page	Year
Arunava Mandal, Namisha Sharma, Mehanathan Muthamilarasan, Manoj Prasad	Ubiquitination: A tool for plant adaptation to changing environments	The Nucleus	61	253-260	2018
Arunava Mandal, Mishra AK, Dulani P, Muthamilarasan M, Shweta S, Manoj Prasad	Identification, characterization, expression profiling, and virus-induced gene silencing of armadillo repeat-containing proteins in tomato suggest their involvement in Tomato leaf curl New Delhi virus resistance	Functional & Integrative Genomics	18	101-111	2018

M.Tech Projects guided : One Student (ongoing)

- i. Name of the student : Hena Gain
- ii. Title of the project : Tomato leaf curl virus infection in laboratory conditions to study the regulation mechanisms of pathogenesis related genes.
- iii. Possible outcome of the project : Tomato leaf curl disease causes a devastating damage in terms of yield. The identification and study of mechanism of regulation of pathogenesis related genes would provide some insight in developing viral resistance in tomato plants. Indeed, with this approach the loss of tomato productivity can be reduced.

New laboratory set up : Plant Molecular Biology and Biotechnology



Dr Smarajit Das, Assistant Professor

Dr Smarajit Das joined in this University July 2018 after completing PhD in Bioinformatics from Indian Association for the Cultivation of Science and Jadavpur University. He also achieved three postdoctoral degrees in several universities in India and abroad. In the University of Gothenburg, Sweden he started a new field of research, namely Cancer bioinformatics. In this branch he analyzed a lot of RNA seq Data and Epigenetics data under the branch of Next Generation Sequence analysis,. At the Department of Genetics, University of Georgia, USA, he engaged himself in another branch of Bioinformatics, namely Metagenomics. He also wrote a book in this field. The name of the book is "Microbiomics, Bioinformatics, Systems Biology and Modeling: A Publishable Project-Based Approach". The goal of this book is to develop a computational and hands on approach for senior undergraduate and starting graduate students to undertake both microbial and host::microbe studies of the complex world of microbes that surround us all. Each chapter develops particular bioinformatics, computational, systems biology and modeling skills using both the literature, in class assignments, and facile wet bench research focused on microbes on humans, in rats, in plants, and in the air/water/soil that constitute our environment. Each chapter provides experiments and experimental suggestions for how any course designer can generate novel research and analyze it for an outcome that would be publishable as refereed research. During 17 years long career, he published more than 30 papers in national, international and conference journal proceeding. He is the member of RNA society, American Association for Cancer research [AACR]. In MAKAUT he already established a high level Bioinformatics lab and a smart class under the Department of Biotechnology.

Seminar Conference 2018-19

- National Seminar on Food processing and technology. MAKAUT March 2019. As participant
- Natonal workshop on Bioinformatics. MAKAUT, WB JUNE 2019. As organizer.

Course Designed:

In MSc Microbiology, MSc Molecular Biology and MSc Genetics he has designed the applied bioinformatics course. He also revolutionize the Genomics and Proteomics syllabus for Molecular Biology and MSc Genetics students.

Training Programme/ Workshop organised in 2018-19:

National workshop on Bioinformatics. MAKAUT JUNE 2019. As organizer

Prof. Arup Mukherjee, *Adjunct Professor*

Professor Mukherjee is a M.Pharm., Ph.D. (Tech.) from Jadavpur University, Kolkata and a post-doctoral fellow of Massachusetts Institute of Technology USA. Professor Mukherjee has 29 years of experience in post graduate teaching and research. He has published his works extensively in high impact journals (i_{10} index 154) and guided 33 Ph.D. scholars so far. The research interests of his team include Biopolymer Technology, Nano-biotechnology and Drug Delivery technology. Professor Arup Mukherjee is a fellow of Royal Society of Chemistry and he has contributed as a visiting faculty and expert member to the Nottingham University, UK, Hungarian Academy of Sciences, Biological Research Centre, La Plata University, Argentina and others. He is also an editorial board member of different journals including the Journal of Pharmaceutical Sciences.



Dr. Amit Kumar Chakrabarti, *Project Officer*

Dr. Chakrabarti is working as a Project Officer in the Dept. of Biotechnology from 2005 – till date. He is an Agro-Biotechnologist. During this period he has been regularly engaged in taking classes of M.Tech. (Biotech.), M.Sc. & Int. Ph.D. (Microbiology) and M.Sc. & Int. Ph.D. (Molecular Biology) courses. He developed a new technology for the Commercial Production of Liquid Biofertilizer. He published papers in peer reviewed journals, attended conferences & workshops and conducted one research project on Studies on tea and tea root extracts to explore protective effects against radiation exposure Sanctioned by National Tea Research Foundation with Pro. S. K. Dey (Pro-Vice Chancellor). His areas of research interests are, (1) Seed Research – seed testing, seed storage, cultivar fingerprinting, stress tolerance etc., (2) Plant-Microbe interactions and Studies on the biodiversity of plant growth promoting microorganisms (PGPR) and production of quality biofertilizers and biopesticides with the effective PGPR for Organic Farming and Production of Melanin & Bioplastic from microbes, (3) Studies on the molecular mechanism of multiple drug resistance. He is an expert & consultant of Agro-Biotechnology. Earlier Dr. Chakrabarti worked in Indian Institute of Chemical Biology & Dept. of Agriculture and received his Ph.D. in 1991 from the University of Calcutta on his work on Crop cultivar fingerprinting by seed & leaf surface scanning, seed storage-protein banding patterns, RFLP, RAPD analysis for changes of seed DNA profile with accelerated aging & nitrogen fertilization. He joined in the Dept. of Biotechnology, Jadavpur University as a DBT Teaching-Research Associate (1991-1997). During this period he worked on the detection of *c-mos* proto-oncogene in Zebra fish and bacterial multiple drug resistance and taught Plant & Microbial Biotechnology during M. Tech. (Biotech.) courses. Following that he did his post-doctoral research in Bose Institute, Bidhan Chandra Kishi Viswavidyalaya, Massey University, New Zealand in the areas related to Crop cultivar identification, Bacterial Multidrug resistance, Biodiversity of Plant growth promoting microorganisms (PGPR), production of quality biofertilizers & biopesticides, and Bioorganic Management of crop plants in the villages of West Bengal for development of Organic Farming. Besides his research & teaching, he also worked for two years in Agro Industry as a Senior Scientist.

Department of Bioinformatics

MAKAUT, WB realized the need for introducing PG teaching and research program in Bioinformatics, in addition to the Biotechnology program, to meet the need of today's scientific community. The Department of Bioinformatics was founded in the year 2005 and is recognized by UGC under its 12B regulation. The department receives grant from UGC for its regular function and also from DBT under its BTIS-net program towards Bioinformatics Infrastructure Facility (BIF).

Program details of the Department

- M.Tech. in Bioinformatics (Session- 2017-19)- 2 Students

- M.Tech. in Bioinformatics (Session- 2018-20)- 3 Students

Faculties engaged in the programmes (2018-19)

- Regular- 6 (1 from Dept. of Bioinformatics, 4 from Dept. of Biotechnology and 1 from Dept. of Natural Sc)
- Contractual: 1 (from Dept. of Biotechnology)
- Visiting- 1 (from Kalyani Govt. Engineering College)

Staff details of the department- 1 (Departmental assistant, contractual)

Post graduate (MTech in Bioinformatics) projects of the department (Title of the project, name of supervisor)

- Title of the project- Meta-analysis for identifying relationship of human lung microbiome to lung function of cystic fibrosis phenotype using GLMdb and Mothur.
Name of supervisor- Prof. Raja Banerjee, MAKAUT, WB and Dr. Sudipto Saha, BI
- Title of the project- Effect of black tea polyphenols, ECGC, on insulin Sensitivity in T2DM patient.
Name of supervisor- Dr. Nirmalya Roy, KPC Jadavpur

Ph.D. programme, name of scholar, name of supervisor

- Ph.D. programme- Leishmania- TLR interaction dictates the fate of the parasite: The role of TLR2
Name of scholar – Soumya Kanti Ghosh
Name of supervisor- Prof. Raja Banerjee and Dr. Bhaskar Saha
- Ph.D. programme- Molecular modelling and design towards understanding microscopic insights of biomolecular structure and function.
Name of scholar- Priya Patra
Name of supervisor- Prof. Raja Banerjee and Prof. Jaydeb Chakrabarti.
- Ph.D. programme: computer -aided prediction of potential drug candidates against cancer using protein- protein interaction modulators
Name of scholar - Tanmoy Jana
Name of supervisor- Prof. Raja Banerjee and Dr. Sudipto Saha

Research projects with the department (Title of the project, Amount of fund, Project Investigator)

- Title of the project- DBT-BIF
Amount of fund- ~10-15 lakhs per year
Project Investigator- Prof. Raja Banerjee



Dr. Raja Banerjee, Director, School of Biological Sc, Professor & HoD Dept. of Bioinformatics

Dr. Raja Banerjee, an organic chemist by training, has been working for ~23 years in the area of structural biology and proteomics towards understanding the sequence-structure-function relationship of proteins and their relevance. With the combined expertise of experimentation (using complementary spectroscopic tools) and computation directed towards answering specific biological questions of interest, his work includes design and characterization of peptides assessing the 'protein engineering' concepts, and the 'protein folding' principles. The concepts and observations acquired in his lab have been extended through development of new ideas for structure, function and interaction study with an effort to understand how local motifs (especially 'anion binding') contribute to the global function of protein

utilizing non-covalent interactions. The central theme of his research expertise is designing therapeutic leads for diseases usually caused by protein folding/misfolding using the structure-based drug design strategy utilizing peptide based motifs.



Dr. Soumen Kumar Pati, Associate Professor

Dr. Soumen Kumar Pati is currently an Associate Professor in the Department of Bioinformatics, Maulana Abul Kalam Azad University of Technology, Nadia, West Bengal. Previously he was a Lecturer in the Department of Information Technology, St. Thomas' College of Engineering and Technology, 4-Diamond Harbor Road, Kolkata-700023 for the period 2005-2010 and was promoted to the rank of Assistant Professor in 2010. Dr. Soumen K. Pati is attached with the International Association for Engineers (IAENG) for engineers and the scientist, Member Number: 211876. He is attached with the CSTEACHERS.ORG (CST), Member Number: 53357146.

Publication details

a. Papers published in journals

- (i) "Gene Subset Selection using Multi-objective Genetic Algorithm for Cancer Classification", Journal of Universal Computer Science (Special Issue), Vol. 24, No 6, pp. 682-710, 2018. (SCI Journal)
- (ii) "Relevant feature selection and ensemble classifier design using bi-objective genetic algorithm", Knowledge and Information Systems. Springer, 2019, doi: 10.1007/s10115-019-01341-6. (SCI Journal)

b. Papers published in conferences

- (i) "A Data hiding scheme with digital authentication using parity checkers", International Conference on Soft Computing in Data Analytics, SCDA-2018, Springer.
- (ii) "Data Hiding with Digital Authentication in Spatial Domain Image Steganography", International Conference on Pattern Recognition, CIPR-2019, Springer.

c. Book Chapters

"Bi-objective Genetic Algorithm with Rough Set Theory for Important Gene Selection in Disease Diagnosis", Multi-Objective Optimization: Evolutionary to Hybrid Framework, Springer Nature Singapore Pte Ltd., pp. 279-298, 2018.

Seminars/ Conferences attended

As seminar Chairman/ Co- Chairman

- (i) Act as a Publicity Chair in the International Conference on Computational Intelligence in Data Mining, which is organized by Veer Surendra Sai University of Technology (VSSUT), Odisha, India, on 15 and 16 December, 2018, (<http://www.iccidm.in/>)
- (ii) Act as a Organizing Chair in the International Conference on Computational Intelligence in Pattern Recognition, which is organized by Indian Institute of Engineering Science And Technology (IIST), Shibpur, West Bengal, India, on 19 and 20 January, 2019, (<http://www.cipr.in/>)
- (iii) Act as a Session Chair in the International Conference on Computational Intelligence in Pattern Recognition, which is organized by Indian Institute of Engineering Science And Technology (IIST), Shibpur, West Bengal, India, on 19 and 20 January, 2019, (<http://www.cipr.in/>)

d. As invited Speaker

Training Programme/ Workshop organised

National workshop on “Sustainable Food Processing Technologies”, held on 21-22 Feb, 2019, Organized by School of Biotechnology, MAKAUT, WB.

New laboratory set up

A new laboratory (computer language) is set up for 1st semester and 2nd semester students of the Department of Bioinformatics (M.Tech.).

Other Academic Achievements

Editor of the International Conference of COMPUTATIONAL INTELLIGENCE IN PATTERN RECOGNITION (CIPR 2019), Indian Institute of Engineering Science & Technology, Shibpur, West Bengal, 19th -20th January 2019.

School of Management & Sciences

Introduction

The School of Management& Science (SOMS) was set up by the West Bengal University of Technology (WBUT) in July 2006. The aim of the School was to function as a centre for advanced studies and research in Management and allied disciplines. The objectives of the School of Management can be broadly summarized as under:

- (a) Promote cutting edge research in different areas of management, economics and finance, and other social sciences with special emphasis on interdisciplinary research
- (b) Introduce new and relevant programmes at the postgraduate levels which would foster an effective interface between industry and academics
- (c) Support the different programmes running under MAKAUT, WB in management and allied disciplines in terms of updating their course structure and syllabi, and also improve and upgrade the evaluation and examination process.

To fulfil these objectives, the School of Management is actively involved in executive and faculty development programmes, and regularly organizes seminars and workshops.

The Department of Natural Science is also currently housed under SOMS.

Infrastructure

The School houses the office of the Director and that of the other faculty members. Each faculty member is provided with separate study space, locker, computer (with internet facilities) and personal phone. The School shares common class rooms with other departments of the University. The class rooms are equipped with

teaching aids like LCD, OHP and white boards. Most of the classrooms have air conditioned facility. The School used the computing facilities of the IBM lab located in the ground floor of the University as well as other computing facilities spread across the University. The School has access to software like Matlab, Statistica etc. which are frequently used for computational purposes.

The School uses the library resources of the University which has a rich and varied collection of books and journals, including a large repository of e-journals. The library boasts of Ebsco Premiere as well as e-journals and books from Springer, which all faculty members can access from their offices.

Department of Natural Science



Dr. Atryee Biswas, Assistant Professor & HoD

Dr. Atryee Biswas obtained her B.Sc in Mathematics(Hons) and M.Sc in Applied mathematics from Calcutta University. She is currently working as an assistant professor and HoD in the Department of Natural Science of Maulana Abul Kalam Azad University of Technology, W.B (MAKAUT, W.B). Before joining MAKAUT, W.B she worked as a lecturer in Ramkrishna Sarada Mission Vivekananda Vidyabhaban under West Bengal College Service Commission. She obtained Ph.D from Jadavpur University in Mathematics in 2016. Her area of research interest is Cosmology. Specifically she is working on the study of thermodynamic nature of the accelerating universe both in reversible and irreversible thermodynamics context.. Previously she worked on quantum mechanical problems in the context of Super symmetry and PT symmetry in Indian statistical Institute (Kolkata). She is associated with various academic associations like 'The Indian Association for General Relativity and Gravitation (IAGRG)' and 'Calcutta Mathematical Society (CMS)'.

Papers published in journal:

- i) “Irreversible thermodynamics of the universe with interacting modified Chaplygin gas as dark energy”, Dr. Atryee Biswas , Astrophysics and Space Science, , 363:203 (2018)

Papers presented in conference

- i) Presented paper titled “” in “International Seminar on Emerging Trends in Physics & Applications (ISETPA- 2019) & 36 th Convention of Orissa Physical Society (OPS)” held on 2- 4 February 2019 at Parala Maharaja Engineering College, Berhampur, Odisha, India.

Seminar/ Conference attended

- i) Attended as a participant in “Current Trends in Mathematics and its Applications (NSCTMA-2019)” on 8th March, 2019 organized by the Mathematics Department, Jadavpur University.

Courses designed:

- i) B.Tech Mathematics for 3rd Semester under MAKAUT, W.B
- ii) B.Sc in Mathematics and Computing under MAKAUT (Inhouse)

Dr. Sankar Prasad Mondal, Assistant Professor

Dr. Sankar Prasad Mondal is an Assistant Professor in the Department of Natural Science in Maulana Abul Kalam Azad University of Technology, West Bengal, India. Previously he was working as an Assistant Professor in the department of Mathematics in Midnapore College (Autonomous) and National Institute of Technology, Agartala. He is having 5 years of teaching and 9 years of research experience in the field of operations research, differential equation, fuzzy sets, mathematical biology, fuzzy differential equation, Soft Computing, Artificial Indigence, Optimization theory. He already published 51 research paper in reputed journals, 10 books chapter and 2 conference paper.

**Publication as Journal Paper**

Animesh Mahata, **Sankar Prasad Mondal**, Shariful Alam, Avishek Chakraborty, Sujit Kumar De, Adrijit Goswami: Mathematical model for diabetes in fuzzy environment with stability analysis. Journal of Intelligent and Fuzzy Systems (SCIE 1.426) 36(3): 2923-2932 (2019)

Syed Abou Iltaf Hussain, Debasish Baruah, Bapi Dutta, Uttam Kumar Mandal, **Sankar Prasad Mondal**, Thuleswar Nath: Evaluating the impact of service quality on the dynamics of customer satisfaction in the telecommunication industry of Jorhat, Assam. Telecommunication Systems (SCIE 1.527) 71(1): 31-53 (2019)

Binayak Sen, Syed Abou Iltaf Hussain, Mozammel Mia, Uttam Kumar Mandal, **Sankar Prasad Mondal**, Selection of an ideal MQL-assisted milling condition: an NSGA-II-coupled TOPSIS approach for improving machinability of Inconel 690, Int J Adv Manuf Technol (SCIE 2.601) (2019)

Binayak Sen, Mozammel Mia, Munish Kumar Gupta, M. Azizur Rahman, Uttam Kumar Mandal, **Sankar Prasad Mondal**, Influence of Al_2O_3 and palm oil-mixed nano-fluid on machining performances of Inconel-690: IF-THEN rules-based FIS model in eco-benign milling, Int J Adv Manuf Technol (SCIE 2.601) (2019)

Animesh Mahata, **Sankar Prasad Mondal**, Ali Ahmadian, Fudiah Ismail, Shariful Alam, and Soheil Salahshour, "Different Solution Strategies for Solving Epidemic Model in Imprecise Environment," (SCIE 1.829) Complexity, vol. 2018, Article ID 4902142, 18 pages, 2018.

Sankar Prasad Mondal, Najeeb Alam Khan, Dileep Vishwakarma, Apu Kumar Saha, Existence and Stability of Difference Equation in Imprecise Environment, Nonlinear Engineering 2018; 7(4): 263–271.

Avishek Chakraborty, **Sankar Prasad Mondal**, Ali Ahmadian, Norazak Senu, Shariful Alam, Soheil Salahshour: Different Forms of Triangular Neutrosophic Numbers, De-Neutrosophication Techniques, and their Applications. Symmetry (SCIE 1.256) 10(8): 327 (2018)

Publication as Books Chapter

- **Sankar Prasad Mondal**, Syed Abou Iltaf Hussain, Binayak Sen, Uttam Kumar Mandal, Linear and Non-linear Neutrosophic Numbers, Fuzzy Multi-criteria Decision-Making Using Neutrosophic Sets (Springer), 2018, pp 63-78
- Syed Abou Iltaf Hussain, Kumar Mandal, **Sankar Prasad Mondal**, Developing a Decision-Making Model Using Interval-Valued Intuitionistic Fuzzy Number, Harmony Search and Nature Inspired Optimization Algorithms (Springer), 2018 pp 269-278
- Syed Abou Iltaf Hussain, **Sankar Prasad Mondal**, Uttam Kumar Mandal, VIKOR Method for Decision Making Problems in Interval Valued Neutrosophic Environment, Fuzzy Multi-criteria Decision-Making Using Neutrosophic Sets (Springer), 2018, pp 587-602



Dr. Tapas Ghosh, Assistant Professor

Dr. Ghosh obtained his B.Sc. and M.Sc. degrees in Chemistry from University of Kalyani, West Bengal. He subsequently joined the group of Professor K. C. Majumdar, University of Kalyani, for a Ph.D. degree in synthetic organic chemistry. His doctoral study focused on the design and synthesis of liquid crystalline materials derived from heterocyclic cores and small heterocyclic molecules of biological interest. He has been awarded several national and international fellowships including Alexander von Humboldt (AvH) postdoctoral fellowship, Marie-Skłodowska-Curie actions postdoctoral fellowship, BELSPO postdoctoral fellowship, TÜBITAK postdoctoral fellowship and few more. After two successive postdoctoral positions in Turkey and Japan, in 2015, he joined the group of Professor Matthias Lehmann as an Alexander von Humboldt (AvH) postdoctoral fellow at Institute of Organic Chemistry, University of Würzburg, Germany where he worked on star-shaped donor-acceptor hybrid materials with potential photovoltaic activity. He then returned to India in September, 2017 and joined as an Assistant Professor in the department of Chemistry, Sree Chaitanya College, Habra, West Bengal. In July, 2018 he moved to the present position where he is appointed as an Assistant Professor in the department of Natural Sciences. Dr. Ghosh has published around thirty papers in renowned international journals. His current research interests are focused on development of new synthetic methodology and drug design; application of liquid crystals as advanced organic photovoltaic materials; carbon-carbon and carbon-hetero atom bond formation, cascade reactions for the synthesis of natural products and bioactive compounds.

Publication details

a. Papers published in journals:

- T. Ghosh*, *ChemistrySelect* **2019**, 4, 4747-4755.
- M. Hügel, M. Dechant, N. Scheuring, T. Ghosh, M. Lehmann,* *Chemistry: A European Journal*, **2019**, 25(13), 3352-3361.
- T. Ghosh*, *Synthetic Communications* **2018**, 48, 1338-1345.

b. Papers presented at conferences: Oral Presentation at International Conference on Chemistry in Human Development (ICCHD), Organized by Prof. Asima Chatterjee Foundation and Heritage Institute, Kolkata, 2018.

c. Book Chapters: One under preparation

Seminars/ Conferences attended

a. As participants:

Oral Presentation at International Conference on Chemistry in Human Development (ICCHD), Kolkata, 2018.

(ii) Participated in 'National Conference on Functional Molecules', at Deptt. Of Chemistry, Calcutta University in 2019.

Industry visits:

Berger Paints- Howrah

Award/Recognition

Best Oral Presentation award at International Conference on Chemistry in Human Development (ICCHD), Kolkata, 2018.

Outreach activities

Participated in TEQIP sponsored workshop on 'Recent Trends in Industrial Pollution Control and Regulation' organized by IIT KGP during 19th - 23rd November, 2018.

New laboratory set up : Chemistry Practical laboratory for In-House B.Tech. Students

Dr. Chabita Saha, Adjunct Faculty

Dr. Saha graduated from Burdwan University in Chemistry. As a Ph. D student with DAE Institute Fellowship and later as CISR Research Associate, she received research foundation in the field of Photochemistry and Radiation Chemistry of Biomolecules, in the Chemical Sciences Department of Saha Institute of Nuclear Physics, Kolkata. She is recipient of Post-Doctoral Fellowship of the Japanese Society of Promotion of Science and got trained in Protein Chemistry and Biophysics in Department of Pharmaceutical Sciences, Hokkaido University, Japan. She also worked in similar field in Department of Physical Chemistry, Hebrew University, Israel receiving University Post-Doctoral Fellowship. She is recipient of DST Women Scientist Fellowship twice. She has guided two students jointly for award of Ph. D degree and two are currently pursuing. Her current research interests are in drug delivery through Nanotechnology, Drug -DNA interactions and Biophysical studies on drug carrier proteins. In this field she has published more than forty papers in international journals of repute



Department of Management



Dr. Indranil Mukherjee, Associate Professor

Dr Mukherjee obtained his B.Sc and M.Sc degrees in Physics from Jadavpur University and was awarded the University gold medals on both occasions. He obtained his Ph.D from Jadavpur University working with CSIR fellowship in the area of Nonlinear Integrable Systems. His current research interests are in non-linear dynamics, chaos and complex systems and their applications in different areas of natural, biological and social sciences as well as mathematical and statistical analysis of datasets. He has published around forty papers in international journals, authored ten book chapters and has one patent filed to his credit. Two students have completed their Ph.D working under his joint supervision, one student has submitted his Ph.D thesis, while another student is doing her Ph. D. He has completed research projects funded by UGC (as PI), IUC-DAE (as co-PI), and BARC (as co-PI). He is currently the Director of the MHRD funded project under the FAST scheme "Centre of Excellence in Environmental Technology and Management", which has been extended till 2020 by MHRD. Dr Mukherjee has around twenty years of professional experience including working in software industry, teaching, training

and research. He is also actively involved in the ongoing academic and administrative reform processes initiated in MAKAUT in the fields of teaching-learning, evaluation, placement and entrepreneurship. In addition to his normal roles and responsibilities, he has served as Controller of Examinations (Acting) from July 2014-July 2017 and as Registrar (Acting) from January 2018 to November 2018 and again from January 2019 to March 2019.

Publications

Papers published in journals/communicated

- Understanding bacterial biofilm stimulation using different methods – a criterion for selecting epiphytes by plants. – Shashi Bhushan, Mandakini Gogoi, Abhispa Bora, Sinchini Barman, Tethi Biswas, Mathummal Sudarshan, Ashoke Ranjan Thakur, **Indranil Mukherjee**, Shaon Ray Chaudhuri. Microbiol. Biotechnol. Lett. (2019), 47(2), 1-7.
- Hierarchies and Hamiltonian structures of the Nonlinear Schrodinger family using geometric and spectral techniques. Partha Guha and **Indranil Mukherjee**. Discrete Contin. Dyn. Syst. Ser. B. (2019), 24(4), 1677-1695.
- Study of quasi-integrable and non-holonomic deformation of equations in the NLS and DNLS hierarchy. Kumar Abhinav, Partha Guha and **Indranil Mukherjee**, Jour. Math. Phys. 59, 101507, 2018.
- Analysis of the behaviour of the detrended BSE Sensex data. Soumya Chatterjee, **Indranil Mukherjee** and P. Barat. Chaos, Solitons and Fractals 113, (2018) 186-196.
- Universality in the dynamical properties of seismic vibrations. Soumya Chatterjee, P. Barat, **Indranil Mukherjee**, Physica A, 492 (2018) 1352-1363.
- Simultaneous sequestration of nitrate and phosphate from wastewater using a tailor-made bacterial consortium in biofilm bioreactor. A. Saha, S. Bhushan, P. Mukherjee, C. Chanda, M. Bhaumik, M. Ghosh, J. Sharmin, P. Datta, S. Banerjee, P. Barat, A.R. Thakur, L.M. Gantayet, **I. Mukherjee** and S. Ray Chaudhuri. J. Chem. Technol. Biotechnol. Vol. 93, Issue 5, May 2018, pp 1279-1289.
- Non-Holonomic and Quasi-Integrable Deformations of Nonlinear Schrödinger Equation and their comparison. - Kumar Abhinav, Partha Guha and **Indranil Mukherjee** – *communicated* arXiv:1611.00961 v3 [nlin.SI] 10 Jan 2019.
- Manifestation of crossover from RMT fluctuation to Poisson fluctuation in BSE sensex, a prototype of financial systems. Soumya Chatterjee and **Indranil Mukherjee** - *communicated*

Book Chapters

- Analysis of BSE Sensex data using tools drawn from statistical physics and computational science – Soumya Chatterjee and **Indranil Mukherjee**. Accepted for publication in the volume titled “Hybrid Computational Intelligence: Research and Applications” (HCIRA) to be published in 2019.
- Self-sustained ramie cultivation: an alternative livelihood option – Shaon Ray Chaudhuri, **Indranil Mukherjee**, Gautam Bose, R.K. Naik – Accepted for publication in the volume titled “Bioresource

utilization in Therapeutics, Biofuel, Agriculture and Environmental protection”: Ed. H.N. Thatoi, S.K. Das. and S. Mahapatra – to be published by Apple Academic Press (AAP), Inc. Canada, Taylor & Francis group in 2019.

Ph. D guided

- Ph.D. degree awarded to Ms Srimoyee Banerjee in 2018 in the discipline Biotechnology for her thesis titled “Understanding the effect of Plant Growth Promoting Bacteria (PGPB) formulation on nutritional quality of mung bean seeds”. Dr Indranil Mukherjee was Associate Supervisor of Srimoyee Banerjee.
- Mr Soumya Chatterjee submitted his thesis titled “Understanding the pattern of complex dynamical processes by advanced statistical analysis” on 20.07.2018. Dr Indranil Mukherjee was Supervisor of Soumya Chatterjee.

Seminars/Conferences attended

- One of the organizers of the Workshop on Smart Learning/ Flipped Learning organized by MAKAUT, WB in 2018 in association with Islamic University of Science and Technology, J& K under TEQIP III as part of the twinning programme.
- Convenor of the one day seminar on “Intelligent Earth and Deep Learning” organized in 2018 by MAKAUT, WB in association with Islamic University of Science and Technology, J&K under TEQIP III as part of the twinning programme.
- One of the organizers of the two workshops on Case Studies in Management titled “Success Stories of Unknown Indians” held in May, 2018 and September, 2018.
- Participated in the NBA/NAAC workshop organized during January 2019 with resource persons from ESCI.
- Was one of the organizers of the seminar on “Transition to low carbon cement based construction industry” held in March 2019 and organized by the Department of Material Science, MAKAUT, WB.

Courses designed

- Was a member of the Board of Studies which designed the course structure of the M.Tech programme in Materials Science and Technology which the Department of Material Science started to offer from the 2018-19 academic session.

Outreach activities

- In the capacity of Registrar (Acting) was part of all such activities undertaken by the University.

Other academic achievements

Funded Research Projects

- The project titled “Centre of Excellence in Environmental Technology and Management” funded by MHRD under the Frontier Areas of Science & Technology (FAST) scheme was extended in 2018 till 2020 by MHRD following third party evaluation by the Science and Engineering Research Board (SERB), appraisal and approval by the Competent Authority.

- The final presentation and defense of the BARC funded project “Nationwide Environmental Gamma Radiation Monitoring using TLDs” was successfully carried out in 2018 in presence of the team of scientists from BARC.

Mr. Surajit Malakar, Faculty

Passed B.Com from University of Calcutta, completed Inter from Institute of Cost Accountants of India and Masters in Business Administration (MBA) with specialization in Finance and Marketing from University of Kalyani. Around 20 years of working experience in industry as well as in teaching in various educational institutions and universities in India and abroad in the areas of Finance, Accounts, Internal Audit, Management, Operations, Port Folio Management and Consulting. Undertook research activities in the areas of Finance and Audit which published in different Journals.



MAKAUT ,WB Centres

EKTA Incubation Center

EKTA incubation centre, established in 2006 as a Registered Society, is a Technology Business Incubator (TBI), founded and hosted by Maulana Abul Kalam Azad University of Technology, West Bengal (formerly WBUT) and supported by NSTEDB and DST, Government of India. Registered Office: MAKAUT Kolkata campus at BF 142, Saltlake City Kolkata-700064.

Current Activities & Projects

- MSME Cluster Development program with TIFAC(Dec 2018 to March 2019)- Two projects namely Sal leaf plate manufacturing Cluster from Bankura and the Apparel Manufacturing Cluster from North 24 Pgs are selected by TIFAC and the process of getting funds for development is on the way.
- National Science Day Celebration –Exhibition to showcase Innovative ideas of students, who have potential of converting ideas to business from MAKAUT & its affiliating colleges.
- IPR Workshop supported by TIFAC, GOI
- Mentoring

Services Provided

- Physical Incubation
- Virtual/ satellite Incubation Services
- Mentoring Services
- Training Services
- Consultancy Services: IPR, Legal, Etc
- Fund Access Services

Persons Associated with EKTA Incubation Centre are:

Prof. Sukhendu Samajdar	Director
Smt. Anima Sur	Office Secretary
Sri. Kaushal Nath Singh	Office Assistant
Sri. Supriyo Tarafdar	Academic Executive

Achievements

- ISBA Awards to Incubatee Companies
1) Tunespray

2) Comunet

- GoI MSME Grant –in-aid Awarded to 5 incubtees

EKTA CONTACTS

Website: www.technologyembryo.com

Email: info@technologyembryo.com /ektaincubationcentre@gmail.com

Facebook: <https://www.facebook.com/ekta.tbi.3>

LINKEDIN: <https://www.linkedin.com/in/ekta-incubation-tbi-b23295184/>

Centre For Genetic Studies

Established in 2007, the centre for genetic counselling strives to be a leader in improving the life of mentally retarded children & for providing Paediatric genetic services. Genetic counselling program is a new frontier in the fight against congenital disorders & genetic diseases. The centre provides genetic counselling and testing to people at increased risk for developing chromosomal disorders and genetic diseases.

The aim of this centre is to help patient and their families faced with a diagnosis of genetic disease to understand the factual information about the disease and the effect it will have on their lives. The centre also provides follow up care for patients and their families. The patients are usually referred from B. C. Roy Children Hospital, Institute of Child Health, Medical College, SSKM Hospital and & other Medical Institutions of West Bengal.

The centre has developed cost effective DNA diagnostic method for rapid diagnosis of common chromosomal disorders and sex anomalies. The center is also conducting research in both basic & applied aspects of Human genetics & genetically based diagnostics. The center is receiving continuous help & suggestions from International Collaborators. Collaborative research has also been initiated with R. N. Tagore International Heart Research Centre, National Neurosciences Centre & Bangur Institute of Neurology. In addition to genetic diagnosis and counselling, the centre has organized seminar & workshop and published manuals to train Paediatricians about genetic diseases and their management.

Report on Investigation carried out

Total Number of patients referred: 109

Name of the hospitals / Medical Colleges:

1. Calcutta Medical College and Hospital
2. Nil Ratan Sarkar Medical College and Hospital
3. S.S.K.M Hospital
4. B. C. Roy Hospital
5. R. G. Kar Medical College and Hospital
6. Sagar Dutta Hospital
7. Burdwan Medical College and Hospital
8. Krishna Nagar Sadar Hospital
9. Institute of Child Health
10. Ranaghat Sadar Hospital

Investigation made and report submitted:**Down Syndrome**

Referred from Hospital	Clinical findings	Karyotype	Diagnosis
Murshidabad Medical college	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Murshidabad Medical College	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Malda Medical college	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
S.S.K.M Medical college	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
S.S.K.M Medical college	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University, Nigeria	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University, Nigeria	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University, Nigeria	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University, Nigeria	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ahmadu Bello University	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
R.G.KAR Medical Colllege	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
Ranaghat Sadar Hospital	Suspected case of Down syndrome	2n=47, XX +21	Down Syndrome
Bankura Medical Hospital	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
S.S.K.M Hospital	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome
R.G.KAR Hospital	Suspected case of Down syndrome	2n=47, XY +21	Down Syndrome

Turner Syndrome

Referred from Hospital	Clinical findings	Karyotype	Diagnosis
R. G. Kar Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
S.S.K.M Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Medical College	Turner Syndrome	2n=45, XO	Turner Syndrome
Bankura Medical College	Turner Syndrome	2n=45, XO	Turner Syndrome
Private Clinic	Turner Syndrome	2n=45, XO	Turner Syndrome
Medical College	Turner Syndrome	2n=45, XO	Turner Syndrome
Ranaghat Sadar Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Krishna nagar Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
S.S.K.M Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
R.G.Kar Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
S.S.K.M Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Sagar Dutta Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Krishna nagar Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome

Sagar Dutta Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Krishna nagar Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Bankura Medical Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
Private Clinic	Turner Syndrome	2n=45, XO	Turner Syndrome
Sagar Dutta Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome
R.G.KAR Hospital	Turner Syndrome	2n=45, XO	Turner Syndrome

Ambiguous Genitalia

Referred from Hospital	Clinical findings	Karyotype	Diagnosis
N.R.S Hospital	Ambiguous Genitalia	2n=46, XY	Male
Medical College and Hospital	Ambiguous Genitalia	2n=46, XY	Male
Medical College	Ambiguous Genitalia	2n=46, XY	Male
R.G.Kar Medical College	Ambiguous Genitalia	2n=46, XY	Male
Private clinic	Ambiguous Genitalia	2n=46, XY	Male
R.G.Kar Medical College	Ambiguous Genitalia	2n=46, XY	Male
Private clinic	Ambiguous Genitalia	2n=46, XY	Male
Medical College and Hospital	Ambiguous Genitalia	2n=46, XY	Male
R.G.Kar Medical College	Ambiguous Genitalia	2n=46, XY	Male
S.S.K.M Hospital	Ambiguous Genitalia	2n=46, XY	Male
Private clinic	Ambiguous Genitalia	2n=46, XY	Male
Medical College and Hospital	Ambiguous Genitalia	2n=46, XY	Male
S. S.K.M Hospital	Ambiguous Genitalia	2n=46, XY	Male
R. G.Kar Hospital	Ambiguous Genitalia	2n=46, XY	Male
B. C.Roy Hospital	Ambiguous Genitalia	2n=46, XX	Female
Institute of Child Health	Ambiguous Genitalia	2n=46, XX	Female
N.R.S Hospital	Ambiguous Genitalia	2n=46, XY	Male
Medical college and Hospital	Ambiguous Genitalia	2n=46, XY	Male
R.G.Kar Hospital	Ambiguous Genitalia	2n=46, XX	Female
PrivateClinic	Ambiguous Genitalia	2n=46, XX	Female
Murshidabad Medical College	Ambiguous Genitalia	2n=46, XX	Female
Ranaghat Sadar Hospital	Ambiguous Genitalia	2n=46, XY	Male

Primary Amenorrhoea

Referred from Hospital	Clinical findings	Karyotype	Diagnosis
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
Medical College	Primary Amenorrhoea	2n=46, XX	Female
Medical College	Primary Amenorrhoea	2n=46, XX	Female
N.R.S Medical College	Primary Amenorrhoea	2n=46, XX	Female
Private clinic	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Medical College	Primary Amenorrhoea	2n=46, XX	Female
Private clinic	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Medical College	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
Private clinic	Primary Amenorrhoea	2n=46, XX	Female

Medical College and Hospital	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female
Medical College	Primary Amenorrhoea	2n=46, XX	Female
Private Hospital	Primary Amenorrhoea	2n=46, XX	Female
Sagar Dutta Hospital	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
Private clinic	Primary Amenorrhoea	2n=46, XX	Female
Murshidabad Medical College	Primary Amenorrhoea	2n=46, XX	Female
Burdwan Medical College	Primary Amenorrhoea	2n=46, XX	Female
Calcutta Medical College	Primary Amenorrhoea	2n=46, XX	Female
R.G.KAR Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.KAR Hospital	Primary Amenorrhoea	2n=46, XX	Female
Sagar Dutta Hospital	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female
Ranigaunj Medical College	Primary Amenorrhoea	2n=46, XX	Female
Bankura Medical College	Primary Amenorrhoea	2n=46, XX	Female
Burdwan Medical College	Primary Amenorrhoea	2n=46, XX	Female
Guwahati Medical College	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female
Medical College	Primary Amenorrhoea	2n=46, XX	Female
Bankura Medical College	Primary Amenorrhoea	2n=46, XX	Female
S.S.K.M Hospital	Primary Amenorrhoea	2n=46, XX	Female
R.G.Kar Hospital	Primary Amenorrhoea	2n=46, XX	Female

Apart Syndrome

Referred from Hospital	Clinical findings	Karyotype	Diagnosis
S.S.K.M Hospital	Suspected case of Apart Syndrome	2n=46, XX	Autosomal dominant

Job's Syndrome

Referred from Hospital	Clinical findings	Karyotype	Diagnosis
Medical College and Hospital	Suspected case of JOB'S Syndrome	2n=46, XY	Autosomal dominant

University Nodal Centers

The university has established five nodal centers covering West Bengal

The colleges situated in Districts	Nodal Centre	Liaison incharge from University
Zone one: Jalpaiguri, Darjeeling, Dinajpur(North & South), Malda, Alipurduar, Coochbehar	Siliguri Institute of Technology	Dr. Indranil Mukherjee
Zone Two : Bankura, Birbhum, Burdwan and Purulia	B.C. Ray Engg College	Dr. Debashis De
Zone Three : Murshidabad, Nadia and North 24 Parganas	JIS college of Engg	Mr. Bivash Mallick
Zone Four : Kolkata Municipal Corporation area, Bidhan Nagar Municipal corporation area and South 24 Parganas		Dr. Madhumita Das Sarkar & Dr. Suparna Biswas
Zone Five : Hooghly, Howrah, East Midnapur, & West Midnapur	Supreme Knowledge Foundation Group of Institutions, Hooghly	Dr. Santanu Phadikar

One extension center has been established in Delhi for Placement and meeting purpose.

Futuristic Plans

MAKAUT, WB was primarily identified as a Nodal University providing affiliation to more than two hundred Colleges / Institutes spread across the state of West Bengal. However, after migrating all the academic and administrative activities to the new sprawling campus at Haringhata, Nadia the University has embarked upon an ambitious plan to expand its In-House programmes through establishment of different Schools and Centres of Study, setting up of new satellite campuses and engaging with industry and corporate bodies in collaborative mode.

Establishment of different Schools of Study with Centres under their supervision

The University will establish the following Schools along with the constituent Departments and Centres as mentioned below:

- **School of Computational Sciences**
Departments: (a) Information Technology
(b) Computer Science and Engineering
- **School of Biological Sciences**
Departments: (a) Biotechnology
(b) Bioinformatics
Centres: (a) Centre for Agro Biotechnology
(b) Centre for Bio-resource Management and Bio-economy
- **School of Natural and Applied Sciences**
Departments: (a) Material Science and Technology
(b) Applied Science
Centres: (a) Centre for Food Science & Technology
(b) Centre for Pharmaceutical Science

(c) Centre for Forensic Science

- **School of Management Science**
Department: (a) Management
- **School of Energy and Environmental Science**
Centres: (a) Centre for Environmental Science
(b) Centre for Waste Utilization
- **School of Engineering Sciences**

Departments: (a) Microelectronics & VLSI
(b) Industrial Engineering & Management
(c) Media Science

Centres: (a) Centre for Robotics & 3D Printing
(b) Animation
(c) Virtual & Augmented Reality

The above Schools will become fully operational from the 2019-20 academic session.

Introduction of professional job-oriented courses and other initiatives to enhance employability

From the 2019-20 academic session, the University will start a number of professional degree courses at the level of UG / PG programmes as well as Certification, Vocational and Skill Development courses in a large number of disciplines to cater to the needs of the industry and society as well as provide employment opportunities to the students. A great deal of effort is being spent in inculcating cutting edge technologies such as those in Machine Learning, Artificial Intelligence, Internet of Things, Data Analytics, Big data, Robotics etc. so that the students have the necessary exposure in these domains. Some of the new courses which will be offered are listed below:

UG Degree Programmes - B.Sc in Biotechnology, Bioinformatics, Environmental Science, Food Science & Technology, Forensic Science, Gaming and Mobile Application Development, Interior Design, B.Sc in IT (Artificial Intelligence), B.Sc in IT (Cyber Security), B.Sc in IT (Data Science), B.Sc in IT (Internet of Things), B.Sc in IT (Blockchain Technology), BCA, B.Sc in Material Science, B.Sc in Mathematics & Computing, B.Sc in robotics and 3D Printing, B.Sc in Multimedia, Animation & Graphics, BBA, BBA in Business Analytics, BBA in Risk Management, BBA in Hospital Administration, BBA in Tourism and Travel Management etc.

PG Degree Programmes – M.Tech in Geoinformatics, M.Tech in IT (AI), M.Tech in IT (Internet of Things), M.Tech in IT (Data Science), M.Tech in IT (Cyber Security), M.Tech in Renewable Energy, M.Sc in Biotechnology, M.Sc in Bioinformatics, M.Sc in Environmental Sciences, M.Sc in Clinical Genetics, M.Sc in Material Science, M.Sc in Forensic Sciences, M.Sc in Pharmaceutical Analysis, M.Sc in Multimedia, Animation and Graphic Design.

PG Diploma Programmes - Broadcasting Engineering, Capital Market & Investment, Computer Forensic, Cyber Crime and Related Laws, Forensic Science & Related Laws, Internet TV, Content Management and Social Media Marketing.

Certificate Courses - 3D Printing, Advanced Computational Science, Artificial Intelligence, Block Chain Technology, Clinical Pharmacy, Computer Forensic and Cyber Crime, Core Networking, Cryptography, Cyber Security, Data Analytics with Python, Data Science with R, Food Processing & Entrepreneurship,

Microbial Technology and Quality Testing, Robotics, Web Application Design, Forensic Science and Criminology, Questioned Documents and Finger Prints etc.

Expansion of the Haringhata campus to attract more students and boost employment opportunities of the local populace

In our multiple endeavour as outlined above, the University will require additional land area adjacent to the Haringhata campus to facilitate consolidation and expansion of its activities. The University has initiated the process of acquiring this land. The proposed activities in the extended campus include construction of a Sports Complex, Centre for Skill Development and Training in Emerging Areas, Media Research and Facility Centre and Food & Biotechnology Research Centre. The introduction of these facilities will surely attract huge number of students from all across India and abroad to this campus. The objective is to make the Haringhata campus truly international in character and world class in stature as well as generate employment for the students and the local population.

Setting up of satellite campuses

The University will set up a satellite campus in the Hostel Complex of Bankura Unnayani Institute of Engineering, Bankura to run few skills driven, job oriented courses. The authorities of Bankura Unnayni Institute of Engineering Trust have agreed to donate 10.5 acres of land at their Hostel Campus for this purpose and the process of transfer of ownership has already been completed from the end of the Land and Land Reforms Department, Govt. of West Bengal. The principal objective of starting the Bankura campus is to impart human resource developmental benefits and initiate socio-techno-economic stimulation of rural Bengal, leading to improvement in the quality of life of the people of Jungle Mahal region and catering to the emerging techno- professional needs of the aspiring Graduate Engineering Students. The proposed campus in Bankura will be used for training of youths and entrepreneurs, introduction of rural management, and other activities like setting up of Centre for Media Science, Sericulture Research and Development Centre, Textile design and Technology, Rural craft hubs for Dokra and Terra Cotta Technology Facilitation Centre, Centre for Herbal Technology, Development of Heritage Tourism and Heritage preservation etc. The University also plans to set up an Aviation Training Academy in this Campus which will be useful for people living in the Durgapur-Asansol region.

Further, the University has been granted seven acres of land in the Darjeeling area and the district authorities asked to identify this piece of land. The University plans to introduce courses on travel and tourism, hospitality management, hotel management, horticulture and other short term courses to enhance the employability of the people living in the hilly areas of West Bengal. In addition, the University plans to leverage the immense biodiversity of the region and its expertise in biotechnology to set up an advanced research centre in this campus.

Collaboration with industry / corporate bodies

The University will start some In-House courses from the 2019-20 academic session in collaboration with industry partners. Notable among these initiatives are the courses in Media Science at the Bankura campus in collaboration with Hitech Industries, the courses in Hotel Management and Hospitality in the campus of IIHM in collaboration with Zoom Industries and the MBA and certification and training programmes in Management in collaboration with the Enterprise Development Institute.

Convocation of the University

The 10th Convocation of Maulana Abul Kalam Azad University of Technology, West Bengal was held on 2nd November, 2018 in Eastern Zonal Cultural Centre, Salt Lake, North 24 Paraganas. The Convocation was presided by His Excellency the Governor of West Bengal and Chancellor of the University Shri Keshari Nath Tripathi. Padmashri Prof. Ajay Kumar Ray, Director, Indian Institute of Engineering Science and Technology (HEST) delivered the Convocation Address as the Guest in Chief Dr. Partha Chatterjee, Hon'ble Minister in Charge of the Department of Higher Education Government of West Bengal was the Guest of Honour but due to an unscheduled emergency assignment could not make it to the place of convocation and had sent his message conveying his best wishes to the students passing out of the University. The University is proud to announce that the degree of Doctor of Science (Honoris Causa) was conferred upon Dr. Purnendu Chatterjee, Founder and Chairman, The Chatterjee Group (TCG).

Medals were awarded to the students as follows:

YEAR	GOLD	SILVER	BRONZE	TOTAL
2018	75	76	79	230

11 Scholars were awarded their Ph.D Degrees.

List of **Ph.D.** Awardees, Convocation -November 2018

S/L	NAME OF CANDIDATE	TITLE OF THE THESIS	CATE GORY	SUPERVISOR	CO-SUPERVISOR
1	ASIT K. CHOUDHURY	SOURCES OF HIGH ENERGY RADIATION AND THEIR EFFECTS ON THE VERY LOW FREQUENCY (VLF) RADIO SIGNALS	Science	PROF. SANDIP K. CHAKRABARTI	
2	KARTIK CHANDRA BASAK	SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS AND FRACTIONAL DIFFERENTIAL EQUATIONS BY ADOMIAN DECOMPOSITION METHOD AND HE's VARIATION METHOD	Science	PROF. PRATAP CHANDRA RAY	PROF. RASAJIT KUMAR BERA
3	GOUR BANDYOPADHYY	AN ANALYSIS OF THE NON-PERFORMING ASSETS OF SOME SELECTED PUBLIC SECTOR BANKS IN INDIA	Management	PROF. MALAYENDU SAHA	
4	ANIRBAN MUKHERJEE	STUDY ON THE EFFECT OF PHYTOCHEMICALS AS WELL AS SYNTHETIC	Technology	DR. SHAON RAY	

		PROTEASE INHIBITORS ON SECRETED SERINE ASPARTYL PROTEASE FROM CANDIDA SP		CHAUDHURI	
5	ANWESHA MUKHERJEE	DEVELOPMENT OF COST- EFFECTIVE LOCATION MANAGEMENT AND POWER CONSUMPTION STRATEGIES FOR FUTURE GENERATION GREEN AND SECURE MOBILE NETWORK	Technology	PROF. DEBASHIS DE	
6	ANINDITA RAY	EXTENDING NETWORK LIFETIME AND COVERAGE FOR GREEN WIRELESS SENSOR NETWORK	Technology	PROF. DEBASHIS DE	
7	SRIMOYEE BANERJEE	“UNDERSTANDING THE EFFECT OF PLANT GROWTH PROMOTING BACTERIA (PGPB) FORMULATION ON NUTRITIONAL QUALITY OF MUNG BEAN SEEDS”	Technology	Dr. Shaon Ray Chaudhuri,	Dr. Indranil Mukherjee, (Associate Supervisor)
8	SOUMYA MUKHERJEE	“UTILITY OF MARKETING COMMUNICATION FOR PROMOTING BRAND AWARENESS ON SOME SELECTED FMCG PRODUCTS WITH SPECIAL EMPHASIS TO COSMETICS AND TOILETRIES”.	Manageme nt	Dr. Mrinal Kanti Das,	
9	ANJAN DE	COMPARATIVE STUDIES ON DESIGN, DEVELOPMENT AND EVALUATION OF AN ANTI-NEOPLASTIC MICROCAPSULE USING BIOMIMETIC POLYMERIC AGENTS	Pharmacy	Prof. (Dr.) Subrata Chakraborty	Prof. (Dr.) Arup Mukherjee (Co Supervisor) & Prof. (Dr.) Jayanta Chattopadhy y (Co Supervisor)

10	DHANABAL K	DESIGN AND SYNTHESIS OF SOME NOVEL PYRIMIDINE DERIVATIVES AS POTENT ANTIMICROBIAL AGENTS	Pharmacy	Dr. Musfiqua Mookerjee,	Prof. Subhasis Maity, (Co Supervisor)
11	DIVANSHU SHUKLA	ROLE OF TOLL-LIKE RECEPTORS IN LEISHMANIA INFECTION:SPATIO-TEMPORAL REGULATION OF TLR EXPRESSION AND FUNCTION	Technology	Prof. Raja Banerjee	Dr. Bhaskar Saha, (Joint Supervisor)



Sports

The University has got a specific budgetary provision for promotion of sports and cultural activities. It has got a Sports Board which undertakes the sports activities among the affiliated colleges and University. It also organizes/hosts inter-University sports meet.

The University regularly arranges for training of different sports activities and sends the University team in National sports activities, organized by different University throughout India



Annual Sports at Haringhata Campus

Events

- 100 Mts. Run Boys
- 100 Mts. Run Female Staff (Age<45y)
- 100 Mts. Run Girls
- 100 Mts. Run Male Staff (Age<45y)
- 200 Mts. Run Boys
- 200 Mts. Run Girls
- 200 Mts. Run Male Staff (Age <45y)
- 200 Mts. Walking Female Staff (Age>45y & <45y)
- 200 Mts. Walking Male Staff (Age>45y & >60y)
- Discuss Throw Boys
- Discuss Throw Girls
- Hitting the Wicket Male Staff
- Kicking the Ball Staff Male

- Long Jump Boys
- Long Jump Girls
- Musical Chair Female Staff
- Relay Race Boys
- Relay Race Girls
- Shot Put Boys & Shot Put Female Staff (45-60y)
- Shot Put Girls
- Shot Put Staff
- Target Goal (Male Staff)

Participants

Participants	Number
Boys Students	140
Female Staff	46
Girl Students	86
Male Staff	110



Annual sports event at haringhata Campus

BOYS EVENT	GIRLS EVENT
100 Mts. Run Boys	100 Mts. Run Girls

200 Mts. Run Boys Shot Put Boys Discuss Throw Boys Long Jump Boys Relay Race Boys	200 Mts. Run Girls Shot Put Girls Long Jump Girls Discuss Throw Girls Relay Race Girls
MALE STAFF EVENT	FEMALE STAFF EVENT
100 Mts. Run Male Staff 200 Mts. Run Male Staff Kicking the Ball Staff Male Hitting the Wicket Male Staff 200 Mts. Walking Male Staff	Shot Put Female Staff 200 Mts. Walking Female Staff 100 Mts. Run Female Staff Musical Chair Female Staff



Gymnasium

At the boys and girls hostel of the University gymnasiums have been functioning at a modest level. It has the necessary workout instruments including the Multigym, Treadmills, Stationary Bike, Body Rail, Weights, Twister, etc. It has a shower closet at one corner. Time allotment has been done for the users.



Vice-Chancellor with students who will take part in AIU East Zone Badminton Championship

National Service Scheme

NSS Report

Sixty-six colleges affiliated to MAKAUT, WB has maintained one unit of NSS containing 100 volunteers each. One Programme Officer has been assigned in each college. The NSS volunteers under the supervision of the Programme Officer are performing the various NSS jobs. The following outcome has been achieved. Dr. Md. Aftabuddin is acting as NSS Coordinator of MAKAUT, WB 2018-19.

List of Colleges affiliated to MAKAUT, WB having NSS Unit

Colleges with Government Funded Unit	
Sr.	Name of College
1	Cooch Behar Government Engineering College
2	Government College of Engineering and Leather Technology
3	Govt. College of Engineering & Ceramic Technology
4	Govt. College of Engineering & Textile Technology, Berhampore
5	Govt. College of Engineering & Textile Technology, Serampore
6	Jalpaiguri Government Engineering College
7	Kalyani Government Engineering College

Colleges with Self Financed Unit

Sr.	Name of College
1	Academy of Technology
2	Asansol Engineering College
3	B. P. Poddar Institute of Management & Technology
4	B. P. Poddar Institute of Management & Technology
5	Bankura Unnayani Institute of Engineering
6	Batanagar Institute of Engineering, Management and Science
7	Bengal College of Engineering and Technology
8	Bengal Institute of Technology
9	Bengal Institute of Technology & Management
10	Bengal School of Technology
11	Budge Budge Institute of Technology
12	Calcutta Institute of Engineering and Management
13	Camelli Institute of Technology & Management
14	Camellia Institute of Engineering & Technology
15	Camellia Institute of Technology
16	Camellia School of Engineering & Technology
17	College of Engineering and Management, Kolaghat
18	Dr. B. C. Roy Engineering College, Durgapur
19	Dr. Sudhir Chandra Sur Degree Engineering College
20	Dream Institute of Technology
21	Durgapur Institute of Advanced Technology & Management
22	Future Institute of Engineering and Management
23	Future Institute of Technology
24	Gargi Memorial Institute of Technology
25	George College
26	Global Institute of Management and Technology
27	Gupta College of Technological Sciences
28	Guru Nanak Institute of Technology
29	Haldia Institute of Technology
30	Heritage Institute of Technology
31	Hooghly Engineering & Technology College
32	ILEAD Institute of Leadership Entrepreneurship & Development
33	Institute of Engineering & Management
34	Institute of Genetic Engineering
35	JIS College of Engineering

36	Mallabhum Institute of Technology
37	MCKV Institute of Engineering
38	Meghnad Saha Institute of Technology
39	Modern Institute of Engineering & Technology
40	Narula Institute of Technology
41	Netaji Subhash Engineering College
42	NSHM College of Management & Technology, Durgapur
43	NSHM College of Management & Technology, Kolkata
44	NSHM Knowledge Campus, Durgapur-Group of Institutions
45	RCC Institute of Information Technology
46	Regent Education & Research Foundation Group of Institute
47	Sabita Devi Education Trust – Brainware Group of Institutions
48	Saroj Mohan Institute of Technology
49	Siliguri Institute of Technology
50	Siliguri Institute of Technology
51	St. Mary's Technical Campus Kolkata
52	St. Thomas College of Engineering and Technology
53	Supreme Knowledge Foundation Group of Institutions
54	Swami Vivekananda Institute of Science & Technology
55	Techno India
56	Techno India – Banipur
57	Techno India College of Technology
58	Techno India, Kolkata
59	Techno India, Salt Lake



Health Check up Camp



Blood Donation Camp

Allocation : 6600

Enrollment during the four quarter	Progressive Total of Enrolment							
	Male	Female	Total	Gen	SC	ST	OBC	Minority
1795	1211	584	1795	1191	253	52	219	80
1106	1952	949	2901	2001	393	71	329	107
572	2322	1151	3473	2368	505	84	394	122
643	2774	1342	4116	2813	606	93	464	140

Special Camp

Camps conducted during the four quarters	Participation in the Camps							
	Male	Female	Total	Gen	SC	ST	OBC	Minority
2	39	185	224	200	12	3	7	2
1	10	10	20	20	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0



Cleanliness drive

Villages/Slums Adopted (Names of Adopted village/slum against unit of each college)

- ø Government College of Engineering and Leather Technology-(112)GC001 - Naobhanga, Sec 4,Kolkata-105
- ø B. P. Poddar Institute of Management & Technology-(115)SC001 - Girish Park
- ø B. P. Poddar Institute of Management & Technology-(115)SC001 - Newtown
- ø B. P. Poddar Institute of Management & Technology-(115)SC001 - Saltlake Sector-V

Blood Donation Camps Organised

(Names of colleges conducted blood donation camps with date and place of camps)

- ø Bengal College of Engineering and Technology-(125) - 17/04/2018 - Mission Hospital, Durgapur, West Bengal
- ø Bengal College of Engineering and Technology-(125) - 03/06/2018 - Mission Hospital
- ø Bengal College of Engineering and Technology-(125) - 18/05/2018 - Mission Hospital
- ø Narula Institute of Technology-(127) - 06/04/2018 - Narula Institute of Technology

- ø Techno India College of Technology-(187) - 13.6.18 ,14.6.18,15.6.18 - College square,kolkata
- ø NSHM College of Management & Technology, Durgapur-(149) - 10th April,2018 - NSHM knowledge Campus, Durgapur
- ø Camellia Institute of Engineering & Technology-(271) - 25th April, 2018 - CIET college Campus
- ø RCC Institute of Information Technology-(117) - 24.07.2018 - RCCIIT,Beliaghata
- ø Netaji Subhash Engineering College-(109) - 13/09/2018 - Netaji Subhash Engg. College
- ø Bankura Unnayani Institute of Engineering-(105) - 19.9.18 - BUIE Campus
- ø Govt. College of Engineering & Textile Technology, Serampore-(110) - 21/02/2019 - Campus of Government College of Engineering and Textile Technology, Serampore
- ø Government College of Engineering and Leather Technology-(112) - 17/01/2019 - GCELT, College Campus
- ø B. P. Poddar Institute of Management & Technology-(115) - 23/02/2019 - B.P. Poddar Institute of Management and Technology
- ø Siliguri Institute of Technology-(119) - 25.02.19 - Siliguri Institute of Technology
- ø Techno India College of Technology-(187) - 09-01-2019 - COFFEE hOUSE
- ø Modern Institute of Engineering & Technology-(269) - 02.02.2019 - Blood Donation Camp – MIET, BANDEL
- ø Supreme Knowledge Foundation Group of Institutions-(253) - 16/03/2019 - College Campus (Supreme Knowledge Foundation Group of Institutions)
- ø Gupta College of Technological Sciences-(124) - 16.03.19 (16 March 2019) - Gupta College fo Technological Sciences Campus
- ø Bengal Institute of Technology-(121) - 12/02/2019 - Bengal Institute of Technology



Health Camp at GCETTS

Trees planted (Names of colleges conducted plantation programme with date and place of programme)

- ø Govt. College of Engineering & Textile Technology, Serampore-(110) - 02/06/2018-Campus of GCETTS
- ø RCC Institute of Information Technology-(117) - 05.06.2018-College premises

ø Guru Nanak Institute of Technology-(143) - 05.06.2018-GNIT Campus
 ø Techno India College of Technology-(187) - 23-4-18-Techno India College of Technology campus
 ø Modern Institute of Engineering & Technology-(269) - 05/05/2018-MIET CAMPUS
 ø Budge Budge Institute of Technology-(276) - 12.4.2018-budge budge institute of technology
 ø Camellia School of Engineering & Technology-(238) - 11-14/04/2018-CSET-Barasat
 ø Camelli Institute of Technology & Management-(257) - 25/04/2018-CITM Campus
 ø B. P. Poddar Institute of Management & Technology-(301) - 11.04.2018-College Premises
 ø Future Institute of Technology-(342) - 20 APRIL-LOCALITY OF COLLEGE
 ø Government College of Engineering and Leather Technology-(112) - 15/08/2018-college ground and garden
 ø Govt. College of Engineering & Ceramic Technology-(113) - 14/08/2018-College Campus
 ø MCKV Institute of Engineering-(116) - 28/7/2018-Bally Santiram Vidyalaya
 ø Narula Institute of Technology-(127) - 14/09/2018-College Campus
 ø Modern Institute of Engineering & Technology-(269) - 09/08/2018-Delhi Road
 ø Modern Institute of Engineering & Technology-(269) - 28/07/2018-Delhi road
 ø Netaji Subhash Engineering College-(109) - 15/08/2018-College surroundings
 ø Camelli Institute of Technology & Management-(257) - 17/06/18-CITM
 ø Bankura Unnayani Institute of Engineering-(105) - 4.8.18-BUIE HOSTEL CAMPUS
 ø Bankura Unnayani Institute of Engineering-(105) - 19/7/18-BUIE Hostel Campus
 ø St. Thomas College of Engineering and Technology-(122) - 28.06.2018-Shew Mewalal Park
 ø Govt. College of Engineering & Textile Technology, Serampore-(110) - 19 to 24 th November 2018 (excluding 21st and 23rd November-GCETT Serampore)
 ø Govt. College of Engineering & Textile Technology, Serampore-(110) - 25th and 26th September 2018- Area in front of Boys' hostel of GCETTS campus
 ø Bankura Unnayani Institute of Engineering-(105) - 1.10.18-5.10.18-BUIE Colg Campus
 ø Govt. College of Engineering & Textile Technology, Serampore-(110) - 6/3/2019-Front garden of GCETTS
 ø Government College of Engineering and Leather Technology-(112) - 26/03/2019-College Garden
 ø Bengal School of Technology-(193) - 6-03-2019-Medicinal Plant Garden, Bengal School of Technology

No. of Programme Officers existing	Male : 50	Female: 16	Total: 66
No. of Trained Programme Officers	Male : 22	Female: 4	Total: 26

Other activities undertaken : (Names of colleges involved in other activities with date and place of activity)

ø B. P. Poddar Institute of Management & Technology-(115) - International Day of Yoga - 21.06.2018 - B. P. Poddar Institute of Management & Technology
 ø MCKV Institute of Engineering-(116) - sports - 30/3/18- 1/4/18 - MCKVIE
 ø MCKV Institute of Engineering-(116) - Ek Sathe Boishakhe - 14/4/18 - ANTILOPE,
 ø MCKV Institute of Engineering-(116) - Rainbow - 21/4/18 - ROTARY SADAN
 ø RCC Institute of Information Technology-(117) - NSS Awareness Program on Outdoor Activities - 21.05.2018 - RCCIIT, Beliaghata
 ø Siliguri Institute of Technology-(119) - Silent protest rally on 22/04/18 against violence against woman and child. More than 600 people participated including all NSS volunteers, students, faculty and staffs of the college and local people participated in this rally. - 22/04/18 - Darjeeling More to Siliguri College, Siliguri
 ø Narula Institute of Technology-(127) - Mini Marathon - 28/03/2018 - From Kamarhati to Khardaha
 ø Guru Nanak Institute of Technology-(143) - Celebration of World Environment Day: We have spreaded a message among all the students, teachers and staff members about Bio-plastic which can be an essential solution of making the world plastic free. - 05/06/2018 - GNIT Campus
 ø Durgapur Institute of Advanced Technology & Management-(155) - Rock Climbing course - 17.03.18- 19.3.18 - Gajaburu Hill
 ø Mallabhum Institute of Technology-(158) - Literacy Programme Of the Children Of MIT Surroundings

under developed village - 02.04.18,05.04.18,09.04.18,12.04.18,16.04.18,19.04.18,23.04. - Mallabhum Institute Of Technology College Campus

ø Supreme Knowledge Foundation Group of Institutions-(253) - Feeding Slum Children - 20/04/2018 - Institute Canteen

ø Supreme Knowledge Foundation Group of Institutions-(253) - Donating clothes to Slum children of Mankundu - 09/06/2018 - Mankundu Slum

ø Supreme Knowledge Foundation Group of Institutions-(253) - Donating clothes to Slum children of Mankundu - 08/05/2018 - Mankundu Slum

ø George College-(133) - Cloth distribution among orphan student refuge - 7/04/2018 - Kolkata

ø Gupta College of Technological Sciences-(124) - Swachh Bharat Abhiyan - 21 April 2018 - College Campus

ø Gupta College of Technological Sciences-(124) - Medicinal garden maintenance - 21 April 2018 - College Medicinal Garden

ø ILEAD Institute of Leadership Entrepreneurship & Development-(289) - Introduction of street library - 19.06.2018 - Ruby Park, Kolkata

ø ILEAD Institute of Leadership Entrepreneurship & Development-(289) - Opening street library - 12th May 2018 - Newtown area

ø Techno India, Kolkata-(226) - Philanthropia (Social Fest) - 21/03/2018 - Techno India

ø Govt. College of Engineering & Ceramic Technology-(113) - Karate Show by Girl Students - 16/08/2018 - West Bengal State University (at state level NSS workshop)

ø Govt. College of Engineering & Ceramic Technology-(113) - Swachh Bharat Summer Internship Program - -

ø B. P. Poddar Institute of Management & Technology-(115) - Independence Day celebration - 15/08/18 - BPPIMT

ø B. P. Poddar Institute of Management & Technology-(115) - Sadbhavana Diwas Day Celebration - 21/08/2018 - BPPIMT

ø MCKV Institute of Engineering-(116) - Azzadi - 15/8/2018 - MCKVIE

ø MCKV Institute of Engineering-(116) - Raahat(Kerala Flood) - 23-24 August - MCKVIE

ø Siliguri Institute of Technology-(119) - Cloth Donation Drive - 10/09/18 to 14/09/18 - SIT

ø Narula Institute of Technology-(127) - Visit oldage home - 16/08/2018 - Ramkrishna olage home

ø Guru Nanak Institute of Technology-(143) - Participated in the rally 'Walk for the Environment' - 16.08.2018 - From college campus to Agarpara via B. T. Road

ø Guru Nanak Institute of Technology-(143) - Initiative taken to clean up the road side from Sodpur station to GNIT college in collaboration with Panihati Municipality - 16.08.2018 - College surrounding area

ø Techno India College of Technology-(187) - Model United Nations (MUN) organised by CRY - 04/08/18-05/08/18 - Techno Internation New Town campus

ø Techno India College of Technology-(187) - Junkyards - 12-7-18 - Tint campus

ø Techno India College of Technology-(187) - Community work at cry Centre - 24-7-18to 25-7-18 - Cry Centre topsia rajabazar

ø Supreme Knowledge Foundation Group of Institutions-(253) - Donating clothes to Slum children of Mankundu - 18/08/2018 - Mankundu Slum

ø Supreme Knowledge Foundation Group of Institutions-(253) - Computer Literacy for Slum children - 22/09/2018 - Institute Computer Lab

ø George College-(133) - Kerala Chief Minister's Distress Relief Fund (CMDRF) - 01/09/2018 - George College, Sealadah

ø Netaji Subhash Engineering College-(109) - Fund collection for Kerala Flood Relief - 14/09/2018 - Netaji Subhash Engg. College

ø Netaji Subhash Engineering College-(109) - Yoga Camp - 30/08/2018 - Netaji Subhash Engg. College

ø Gupta College of Technological Sciences-(124) - E-waste removal program - 18 August 2018 - Gupta college computer lab

ø Gupta College of Technological Sciences-(124) - Medicinal garden Maintenance and Clean Asansol Green Asansol Program in college campus - 14 July 2018 - College campus

- ø Gupta College of Technological Sciences-(124) - Diseases Awareness camp training program And, Medicinal garden Maintenance and Clean Asansol Green Asansol Program in college campus - 21 July 2018 - College campus
- ø ILEAD Institute of Leadership Entrepreneurship & Development-(289) - Donation collection for Kerala flood - 2108.2018 - ILEAD campus
- ø B. P. Poddar Institute of Management & Technology-(301) - Celebration of Independence day - 15th August,2018 - College campus
- ø Bankura Unnayani Institute of Engineering-(105) - Donation to KErала CM's Distress Relief Fund - 21.8.18 -
- ø Govt. College of Engineering & Ceramic Technology-(113) - Two Students Participated National Integration Camp - 25 November to 2nd December, 2018 - Anand
- ø B. P. Poddar Institute of Management & Technology-(115) - Vigilance Awareness Week 2018 - 29/10/2018 to 03/11/2018 - B.P. Poddar Institute of Management and Technology, Kolkata
- ø B. P. Poddar Institute of Management & Technology-(115) - Sardar Vallabhai Patel Birthday celebration - 31/10/2018 - B.P. Poddar Institute of Management and Technology, Kolkata
- ø MCKV Institute of Engineering-(116) - Diwali celebration - 5/11/2018 - MCKVIE
- ø MCKV Institute of Engineering-(116) - world no tobacco awareness - 22/11/2018 - MCKVIE
- ø RCC Institute of Information Technology-(117) - Orphanage Visit - 26.12.2018 - Child Care Home & Sukanya Home
- ø JIS College of Engineering-(123) - Arsenic Drinking Water Awareness - 24.11.2018 - kachrapara
- ø Narula Institute of Technology-(127) - Oldage Home Visit - 2/11/18 - Ramkrishna Oldage home
- ø Narula Institute of Technology-(127) - Orphan age Home visit - 2/11/18 - Dayadan
- ø Narula Institute of Technology-(127) - Diwali celebration with street children - 02/11/18 - local area
- ø Narula Institute of Technology-(127) - Swachh bharat Abhiyan - 02/11/18 - Local area
- ø Narula Institute of Technology-(127) - Drawing competition of Underprivileged children - 10/10/18 - Garia
- ø Narula Institute of Technology-(127) - Swacha Bharat Abhiyan - 28/09/18 - Kamarhati
- ø Guru Nanak Institute of Technology-(143) - Donation of clothes to Ramkrishna Mission - 27/11/2018 - GNIT
- ø Guru Nanak Institute of Technology-(143) - Celebration of Dewali and distribution of sweets and fruits to all the inmates of oldage home at Sodepur namely, 'Ramkrishna Briddhasram'. - 02/11/2018 - At the place of two different oldage home, Sodepur, Kolkata-114
- ø Guru Nanak Institute of Technology-(143) - Orientation Program - 11/10/2018 - GNIT
- ø Techno India College of Technology-(187) - Mind power - 27-11-2018 - College campus
- ø Modern Institute of Engineering & Technology-(269) - Donation to the underprivileged - 03.11.2018 - Bandel Station
- ø Modern Institute of Engineering & Technology-(269) - Donation to the underprivileged - 02.10.2018 - WILL a social welfare community, Singur, Hooghly.
- ø George College-(133) - Winter Cloth distribution - 10/11/2018 - Andul Station
- ø Gupta College of Technological Sciences-(124) - Medicinal Garden Maintenance - 24 November 2018 - College campus
- ø Gupta College of Technological Sciences-(124) - Dengue awareness program for new NSS volunteers - 29 September 2018 - College campus
- ø Gupta College of Technological Sciences-(124) - Stagnant water cleaning in College campus - 29 September 2018 - Gupta College of Technological Sciences
- ø B. P. Poddar Institute of Management & Technology-(301) - Celebration of Children's' Day - 14th November,2018 - College campus
- ø Govt. College of Engineering & Textile Technology, Serampore-(110) - Health Camp - 21st February 2019 - Campus of Government College of Engineering and Textile Technology, Serampore
- ø Govt. College of Engineering & Textile Technology, Serampore-(110) - Inauguration of College Annual Magazine entitled ' Stepping Stone ' on 26th March. - 26th March 2019 - GCETTS Campus
- ø Government College of Engineering and Leather Technology-(112) - Plastic free campus - 26/03/2019 - College campus

ø Govt. College of Engineering & Ceramic Technology-(113) - 327 students have been made Member of Students Health Home by NSS UNIT of our College - -

ø B. P. Poddar Institute of Management & Technology-(115) - NSS volunteers orientation program - 28/03/2019 - B.P. Poddar Institute of Management and Technology

ø JIS College of Engineering-(123) - 0 - 0 - 0

ø Narula Institute of Technology-(127) - Independence day celebration - 26/01/2019 - Narula Institute of Technology

ø Narula Institute of Technology-(127) - Candle March for Pulwama Attack - 15/02/2019 - local area

ø Narula Institute of Technology-(127) - Drug Free India by ART of Leaving - 19/02/2019 - Narula Institute of Technology

ø Narula Institute of Technology-(127) - "Warmth of Love" by giving woolen cloth to the under privileged people - 11/01/2019 - Surrounding area

ø Guru Nanak Institute of Technology-(143) - Celebration of National Science Day in collaboration with Applied Science and Humanities Department - 28.02.2019 - GNIT

ø Guru Nanak Institute of Technology-(143) - Celebration of International Women's Day in collaboration with Women's Grievance and Redressal cell, GNIT. Self defense training for the girls' was arranged more than 150 girls took part. - 08.03.2019 - GNIT

ø Modern Institute of Engineering & Technology-(269) - Donation to the underprivileged - 24.01.2019 - We Improve Life & Living (Singur)

ø Modern Institute of Engineering & Technology-(269) - Donation to the underprivileged - 02.03.2019 - We Improve Life & Living (Singur)

ø Supreme Knowledge Foundation Group of Institutions-(253) - Providing food packets and entertainment. - 09/02/2019 - NGO at Mankundu, Hooghly

ø George College-(133) - Run For Cause Clean City Green City & Women Empowerment - 23/12/2018 - Salt Lake City Center I

ø Gupta College of Technological Sciences-(124) - Medicinal garden Maintenance and Clean Asansol Green Asansol Program in college campus - 23 Feb 2019 - College campus

ø Gupta College of Technological Sciences-(124) - Drugs free India camp preparation - 02.03.2019 - Gupta College of Technological Sciences Campus

ø B. P. Poddar Institute of Management & Technology-(301) - Celebration of Subhas Chandra Bose's birth day - 23rd January, 2019 - College campus

ø Bengal Institute of Technology-(121) - Community Development Programme - 12/02/2019 - Bengal Institute of Technology

The University Administration

Authorities of the University

The General Council is the supreme administrative authority of the University, chaired by the Governor of the State of West Bengal who is the Chancellor of the University.

The administration, management and control of the University and the income thereof vest in the Executive Council, which controls and administers the property and funds of the University, subject to the general supervision of the General Council.

The Academic Council is the principal academic body of the University. Subject to the provisions of the West Bengal University of; Technology Act, 2000 and the First Regulations of the West Bengal University of Technology, it has the control of and is responsible for the maintenance of standards of learning, education, instruction, evaluation and examination within the jurisdiction of the University.

The Finance Committee takes necessary action for proper management and control of the finance of the University, subject to the overall supervision of the Executive Council and General Council.

The General Council

Shri Keshari Nath Tripathi, His Excellency the Governor of West Bengal and Chancellor of the University	Chairman
Prof. Saikat Maitra, Vice-Chancellor, MAKAUT, WB	Vice-Chairman
Sri Kunal Kanti Jha, nominee of Secretary, Higher Education Dept. Govt. of WB	Member
Sri Samir Ghosh, nominee of Finance Secretary, Finance Dept. Govt. of WB	Member
Sri Arijit C. Majumdar (Retd.), IIM, Ranchi, nominee of Chairman, W.B. State Council of Higher Education	Member
President, West Bengal Council of Higher Secondary Education	Member
President, West Bengal Board of Madrasah Education	Member
President, West Bengal Board of Secondary Education	Member
Director, Indian Institute of Social Welfare and Business Management or his nominee	Member
Prof. D. Narasimha Reddy, Member UGC, nominee of Chairman UGC	Member
Prof. S. G. Bhirud, Adviser-I, AICTE, nominee of Chairman AICTE	Member
Director of Technical Education	Member
Nominee of the Chairman of the Fee Structure Committee	Member
Prof. Sriyankar Acharya, Prof. Dept. of CSE & IT, MAKAUT, WB	Member
Prof. Raja Banerjee, Prof. Dept. of Biotechnology, MAKAUT, WB	Member
Dr. Atreyee Biswas, Asst-Prof. Dept. of Natural Sciences, MAKAUT, WB	Member
Prof. K. Chakraborty, Principal Govt. College of Engg. & Ceramic Technology	Member
Prof. Amitava Ray, Principal Jalpaiguri Govt. Engg. College (JGEC)	Member
Dr. Bibek Chakraborty, Principal, Purulia Government Engineering College	Member
Prof. Pranay Chaudhuri, Principal, Heritage Institute of Technology	Member
Dr. Sutapa Mukherjee, Principal, B. P. Poddar Institute of Management & Technology	Member
Dr. Goutam Mukherjee, Asso. Prof., Govt. College of Engineering & Leather Technology	Member
Prof. Sukhendu Sekher Mondal, Teacher, Cooch Behar Govt. Engineering College	Member
Dr. Biswarup Neogi, Asso. Prof, Dept. of CSE, JIS Engineering College	Member
Dr. Satyajit Chakrabarti, Director, Institute of Engineering & Management	Member
Dr. Saurabh Dutta, Professor, Dr. B. C. Roy Engineering College (MCA)	Member
One representative of officers of MAKAUT, WB	Member
Two representative of non-teaching employees	Member
Prof. Kusum Sudhakar Reddy, HoD Dept. of Civil Engg., IIT KGP, Chancellor's nominee	Member
Prof. Gairik Das, HoD - MPD and Business Projects, IISWBM, Kolkata, Chancellor's nominee	Member
Sri Kallol Dutta, Ex-Chairman & Managing Director, Andrew Yule & Company, nominee of State Govt.	Member

Dr. Abhijit Majumdar, Professor, Dept. of Physics, IEST, Shibpur, Howrah, nominee of State Government	Member
Prof. Subhrangshu Sekhar Chatterji, Ex-Vice-Chancellor, Cooch Behar Panchanan Barma University, nominee of State Government	Member
Dr. Indranil Mukherjee, (Acting), MAKAUT, WB	Secretary

The Executive Council

Prof. Saikat Maitra	Chairman	Vice-Chancellor, MAKAUT, WB
Sri. Siladitya Basuray	Member	Special Secretary, Higher Education Department, Govt. of WB
Dr. Amalendu Basu	Member	DTE, Govt. of WB
Sri Bidyut Kumar Nandi	Member	Financial Advisor, Higher Education Department, Govt. of WB
Prof. Debashis De	Member	Director, School of Computational Sciences, MAKAUT, WB
Prof. Raja Banerjee	Member	Director, School of Biological Sciences, MAKAUT, WB
Dr. Indranil Mukherjee	Member	Director, School of Natural Sciences, MAKAUT, WB
Dr. Debasish Giri	Member	Associate Professor, Dept. of Information Technology, MAKAUT, WB
Dr. Santanu Phadikar	Member	Associate Professor, Dept. of CSE, MAKAUT, WB
Mr. Bivash Mallick	Member	Assistant Professor, Dept. of Industrial Engineering and Management, MAKAUT, WB
Dr. Tufan Naiya	Member	Assistant Professor, Dept. of Biotechnology, MAKAUT, WB
Prof. Krishnendu Chakraborty	Member	Principal, Govt. College of Engineering. & Ceramic Technology
Prof. Amitava Ray	Member	Principal, Jalpaiguri Govt. Engineering College
Prof. Bibek Chakraborty	Member	Principal, Purulia Govt. Engg. College
Prof. Sutapa Mukherjee	Member	Principal, B.P Poddar Institute. Of Management & Technology
Prof. Pranay Chaudhuri	Member	Principal, Heritage institute of Technology
Dr. Goutam Mukherjee	Member	Associate Professor, Govt. College of Engineering & Leather Technology
Prof. Sukhendu Sekher Mondal	Member	Associate Professor, Cooch Behar Govt. Engineering College
Prof. Pranabesh Chakraborty	Member	Director, Bengal School of Technology (Pharmacy)
Dr. Biswarup Neogi	Member	Prof. GNIT
Dr. Saurabh Dutta	Member	Professor Dr. B.C. Roy Engineering College (MCA)
Prof. Abhijit Majumder	Member	Professor, IEST

Dr. Satyajit Chakrabarti	Member	Director, Institute of Engineering & Management
Prof. Gairik Das	Member	Prof. Indian Institute of Social Welfare and Business Management
Sri Kallol Dutta	Member	Ex-Chairman & MD, Andrew Yule Co.
Prof. Kusum Sudhakar Reddy	Member	HOD, Department of Civil Engineering, IIT, Kharagpur
Sri Asish Kar	Member	Retd. Executive, Andrew Yule & co.
Prof. Sriyankar Acharyya	Secretary	Registrar (Acting), MAKAUT, WB.

The Academic Council

Prof. Saikat Maitra	Chairman	Vice-Chancellor, MAKAUT, WB
Dr. Indranil Mukherjee	Member Secretary	Registrar, MAKAUT, WB
Dr. Santanu Phadikar	Member	Asso. Professor, and Head, Dept. of Computer Science, MAKAUT, WB.
Prof. Raja Banerjee	Member	Prof, Dept. of Biotechnology and Head, Dept. of Bioinformatics MAKAUT, WB
Mr. Bivash Mallick	Member	Asst. Professor and Head, Dept. of Industrial Engineering and Management, MAKAUT, WB
Dr. Rina Rani Ray	Member	Asso. Professor and Head, Dept. of Biotechnology, MAKAUT, WB.
Dr. Atreyee Biswas	Member	Asst. Professor and Head Dept. of Natural Science, MAKAUT, WB.
Prof. Bijan Sarkar	Member	Professor, Dept. of Production Engineering, Jadavpur University
Prof Bikas K. Chakraborty	Member	Emeritus Professor, Saha Institute of Nuclear Physics
Prof. Pingal Venugopal	Member	Professor, XLRI Jamshedpur
Dr. Dipankar Sarkar	Member	Principal, Dream Institute of Technology
Dr. Sabyasachi Bagchi	Member	Teacher, Netaji Subhas Engineering College
Dr. Arup Dasgupta	Members	Teacher, Netaji Subhas Engineering College
Prof. Debasish De	Member	Director, School of Computational Sciences, MAKAUT, WB.
Dr. Debasish Giri	Member	HOD, Dept. of Information Technology, MAKAUT, WB.
Dr. Agnibha Dasgupta	Member	Teacher, Netaji Subhas Engineering College

Administrative Officers

Chancellor	His Excellency Sri K. N. Tripathi, Hon'ble Governor, West Bengal
Vice Chancellor	Prof. Saikat Maitra

Registrar(Actg.)	Dr. Indranil Mukherjee
Finance Officer	Dr. Atri Bhowmik
Inspector of Colleges	Dr. Swapan Kumar Maity
Information Scientist	Dr. Md. Aftabuddin
Assistant Librarian	Ms. Najmun Nessa
Assistant Registrar	Mr Anup Mukherjee
Assistant Controller of Examinations	Mr. Anil Prasad

Other Officers & Engineers

Haider Ali	COE
Rabin Kumar Datta	Audit & Accounts Officer
Asim Kumar Ghosh	Engineer (Civil)
Susanta Kumar Poddar	Engineer (Electrical)
Rana Bandyopadhyay	Placement In-charge
Sudiptanshu Roy Chaudhuri	Facility Manager
Prasanta Narayan Dutta	
Atindra Chandra Sengupta	
Swati Jalan	Public Relations
Rapti Ray	Academic Executive
Supriya Tarafder	Academic Executive
Harekrishna Karjee	Site Engineer
Moyazzem Hossain	Jr. Engineer Civil
Saikat Sarkar	
Anirban Roy	Scientific Officer

Advisors & other Faculties

Bibhuti Bhusan Paira	Advisor
Somak Shome	Advisor
Subhabrata Roy Chaudhuri	Advisor
Subhankar Pal	Advisor
Arup Mukherjee	Adjunct Professor
Sibamay Dasgupta	Adjunct Professor

Sukhendu Samajdar	Adjunct Professor
Chabita Saha	Adjunct Faculty
Kalipada Das	Adjunct Faculty
Subhajit Pathak	Adjunct Faculty
Bipasha Mahato	Faculty
Dipanwita Ghosh	Faculty
Jagannath Roy	Faculty
Milan Pradhan	Faculty
Sohail Saif	Faculty
Sourav Hati	Faculty
Sujit Kumar Poddar	Faculty

Administrative Staffs

Employee Name	Designation
Ajoy Bhattacharjee	Assistant
Amar Kanti Ghosh	Assistant
Ashim Kumar Gangopadhyay	Assistant
Ashis Nandi	Assistant
Dibyendu Dutta	Assistant
Jayanta Das	Assistant
Khorsed Munshe	Assistant
Ranjan Mondal	Assistant
Sagar Ratan Basu	Assistant
Shamik Ghosh	Assistant
Som Mauli Adhikary	Assistant
Sujit Kumar Saha	Assistant
Sukanya Gupta	Assistant
Naresh Das	Driver
Arnab Pal	Group D
Emandi Narayan Rao	Group D
Nikhil Kumar Biswas	Group D
Pradip Kumar Paswan	Group D

Rabindra Nath Polley	Group D
Sanjoy Hazra	Group D
Swarup Majumder	Group D
Bratati Ghosh	Jr. Assistant
Debasish Sarkar	Jr. Assistant
Pritha Ghosh	Jr. Assistant
Soumendu Ghosh	Jr. Assistant
Ashis Sarkar	Sr. Assistant
Kaushik Ghosh	Sr. Assistant
Pradyut Kar	Sr. Assistant
Sudhansu Chakraborty	Sr. Assistant
Sujata Ghosh	Sr. Assistant
Amit Paul	Store Assistant
Chumki Das	Technical Assistant
Mithun Ghosh	Technical Assistant
Pritimoy Sanyal	Technical Assistant
Shubhashis Sengupta	Technical Assistant
Sumana Chakraborty (Ghosh)	Technical Assistant

Other Staffs

Abhijit Bhattacharjee	Dinesh Kumar Shaw	Samar Naskar
Amar Nath Ghosh	Dipanjana Dey	Samir Das
Amlan Chakraborty	Goutam Deb	Sanat Bose
Anima Halder	Kaushal Nath Singh	Sanjoy Dutta
Arup Roy	Mahesh Prasad Gupta	Saroj Das
Ashim Chakraborty	Manik Chandra Das	Shyamal Mirdha
Ashok Das	Manik Sardar	Sujay Mukhopadhyaya
Avijit Pathak	Mridul Adhikary	Sujit Kumar Roy
Bablu Banick	Nakul Paswan	Sukumari Maiti
Bamdev Jash	Palash Dutta	Suman Sen

Basanta Kr. Shit	Pritam Chakraborty	Surajit Debnath
Bhola Ghosh	Rajat Chatterjee	Susanta Chakraborty
Binay Bhunia	Ramkrishna Nath	Swapan Lal Chatterjee
Biswajit Das	Rupa Dey	Swarup Pramanick
Debasish Roy	Sadhan Mondal	Ujjal Kansa Banik

Staffs Engaged through Agencies

Anirban Chakraborty	Kasfa Jamila Khan	Sk Washim Arafat
Arun Deb	Pran Krishna Kirtania	Soumya Bhattacharya
Arunangshu Chakraborty	Priyanka Ghosh	Sourav Dutta Roy
Avijit Das	Sabbir Ahamed	Suchanda Dalal
Bidyashri Goswami	Sampa Kar	Suman Kar
Chinmoy Mondal	Sandip Basu	Sumit Bose
Debanjan Bhaduri	Sanjoy Mallick	Surajit Sadhukhan
Deepa C	Saptadipa Mazumder	Suvodeep Manna
Dipankar Bhowmick	Shreya Sen	Tapan Dutta
Gitanjali Coomar	Shubhajit Mondal	

Research and Fellowships

Ph.D. Enrolled/Registered Student List

Sl	Name	Subject	Supervisor/joint supervisor/associate supervisor
1	Rajat Subhra Bhowmik	ME	Dr. Arijit Kundu
2	Krishnendu Mondal	ME	Dr. Santanu Das, Dr. Bijoy Mandal
3	Sukarna Dey Mondal	MATH	Dr. Dipendra Nath Ghosh
4	Moulipriya Sarkar	MATH	Dr. Dipendra Nath Ghosh, Dr. Tapasi Das
5	Sudipta Roy	MATH	Dr. Sandip Chatterjee
6	Biswajit Maity	CHE. ENGG.	Dr. Biswajit Mondal, Dr. Sunil Baran Kuila, Dr. Avijit Ghosh
7	Samar Samanta	CHE. ENGG.	Dr. Biswajit Mondal, Dr. Avijit Ghosh, Dr. Sunil Baran Kuila
8	Amrita Jasu	Biotechnology	Dr. Rina Rani Ray
9	Nilkantha Chatterjee	Biotechnology	Dr. Tufan Naiya, Dr. Indranil Samanta

10	Khushman Taunk	Biotechnology	Dr. Tufan Naiya, Dr. Srikanth Rapole
11	Bikash Debnath	CSE	Prof. Debashis De
12	Bidyut Das	CSE	Dr. Santanu Phadikar
13	Arkaprabha Sau	CSE	Dr. Santanu Phadikar
14	Subha Ghosh	CSE	Prof. Debashis De
15	Chinmoy Ghosh	CSE	Dr. Satyendra Nath Mandal
16	Alokananda Dey	CSE	Dr. Siddhartha Bhattacharyya , Dr. Sandip Dey
17	Indadul Khan	CSE	Dr. Debasis Giri , Dr. Manas Kumar Maiti
18	Annwesha Banerjee (Majumder)	CSE	Dr. Somsubhra Gupta
19	Amalendu Si	CSE	Dr. Sujit Das, Dr. Samarjit Kar
20	Somnath Maji	CSE	Dr. Debasis Giri, Dr. Manoranjan Maiti
21	Sonali Banerjee	cse	Dr. Rajib Bag R, Dr. Atanu Das,
22	Subhojit Roy	CSE	Dr. Satyen Mondal, Dr. Santanu Banik
23	Samir Kumar Sett	CSE	Dr. Anupam Ghosh
24	Koyel Chakraborty	CSE	Dr. Rajib Bag, Dr. Siddhartha Bhattacharyya
25	Kaustuv Deb	CSE	Dr. Rajib Bag, Dr. Atanu Das
26	Subir Hazra	CSE	Dr. Anupam Ghosh
27	Joydev Hazra	CSE	Dr. Kousik Dasgupta, Dr. Paramartha Dutta
28	Soma Bandyopadhyay	CSE	Dr. Subro S. Thakur
29	Swarup Kumar Ghosh	CSE	Dr. Anupam Ghosh
30	Sanket Dan	CSE	Dr. Satyen Mondal, Dr. Santanu Banik
31	Partha Sarathi Banerjee	CSE	Dr. Satyandra Nath Mandal, Dr. Biswajit Maiti,
32	Ajit Mondal	ME	Dr. Santanu Das
33	Indrajit Koley	EE	Dr. Goutam Kumar Panda, Dr. Asim Datta
34	Sucharita Pal	EE	Dr. Dola Sinha
35	Sanjukta Dey	EE	Dr. Goutam Kumar Panda, Dr. Banani Adhikari
36	Subhajit Bhowmick	EE	Dr. Dharmadas Mandal, Dr. Palash Kumar Kundu
37	Satyajit Saha	EE	Dr. Pritam Kumar Gayen
38	Sankhadip Saha	EE	Dr. Urmila Kar
39	Prasun Sanki	EE	Dr. Partha Sarathi Pal, Dr. Mousumi Basu
40	Poulami Ghosh	EE	Dr. Subrata Biswas, Dr. Prithwiraj Purkati
41	Milton Kumar Das	EE	Dr. Partha Sarathi Bera, Dr. Partha Pratim Sarkar, Dr. Krishnendu Chakrabarty
42	Indrajit Naskar	AEIE	Dr. Arabinda Kumar Pal, Dr. Nandan Kumar Jana
43	Santu Guin	AEIE	Dr. Madhurima Chattopadhyay

44	Sushma Verma	EE	Dr. Provas Kumar Roy, Dr. Barun Mandal, Dr. Indranil Mukherjee
45	Dibyendu Banerjee	EE	Dr. Aritra Dasgupta
46	Soumyadip Jana	EE	Dr. Partha Sarathi Pal
47	Dipak Kumar Dhak	EE	Dr. Sumit Banerjee, Dr. C. K. Chanda
48	Satabdi Chatterjee	EE	Dr. Barun Mandal, Dr. Indranil Mukherjee
49	Anish Kumar Bhunia	EE	Dr. Subrata Biswas, Dr. Tridibesh Nag
50	Sindhura Gupta	EE	Dr. Susovan Mukhopadhyay, Dr. Ambarnath Banerjee
51	Sourav Hati	CSE	Prof. Debashis De
52	Savan Kumar Sharma	CT	Dr. Barun Kumar Sanfui
53	Panchu Ram Bar	CT	Dr. Barun Kumar Sanfui, Dr. Srimanta Kumar Patra
54	Sauvil Bal	CSE	Dr. Lopa Mandal
55	Tirtha Sankar Daphadar	EE	Dr. Tapan Santra, Dr. Amalendu Bikash Choudhury
56	Gaurav Kumar Bhagat	BI	Prof. Raja Banerjee
57	Animesh Karmakar	EE	Dr. Tapan Santra, Dr. C. K. Chanda
58	Dibyajit Lahiri	BT	Dr. Rina Rani Ray
59	Suman Kumar Bhattacharyya	CSE	Dr. Sagarika Pal
60	Ratan Kumar Basak	CSE	Dr. Koushik Dasgupta, Prof. [Paramartha Dutt
61	Dipanwita Ghosh	CSE	Dr. Somdatta Chakraborty
62	Dipika Dhara	CSE	Dr. Somdatta Chakraborty
63	Somalina Chowdhury	CSE	Dr. Santanu Kr. Sen
64	Pritam Pain	ME	Dr. Gautam Bose, Dr. Dipankar Bose
65	Subrata Paul	CSE-IT	Dr. Chandan Koner, Dr. Anirban Mitra
66	Bedabrata Bhadury	Management	Dr. Tapas Ranjan Saha
67	Sunila Banerjee	Management	Dr. S. Mazumdar
68	Soumik Das	Management	Dr. Shamindra Nath Sanyal
69	Arijit Adhikary	Management	Dr. Indrajit Sinha
70	Shubhabrata Basu	Management	Dr. Rimu Chaudhuri, Dr. Soumyendra Nath Roy
71	Ram Kumar Singh	Management	Dr. Shuvendu Dey, Dr. Debasis Bhattacharya
72	Bidhan Baidya	Management	Dr. Shantanu Chakraborty, Dr. Pranam
73	Kakali Dasgupta Saha	Management	Dr. Amit Kundu
74	Soumitra Mukherjee	Management	Dr. Arpita Basak
75	Nilim Manna	Management	Dr. Sujit Mukherjee, Dr. Arunava Narayam Mukherjee
76	Arpan Mukherjee	Management	Dr. Manik Chatterjee
77	Pauline Ahoy	Management	Dr. Shuvendu Dey, Dr. Debasis Bhattacharya

78	Sanjoy Konar	Pharmaceutical Technology	Dr. Souvik Basak, Dr. Subrata Chakraborty
79	Saptarshi Dutta	Pharmaceutical Technology	Dr. Subhabrata Roy, Dr. Subrata Chakraborty
80	Saroj Singhmura	Pharmaceutical Technology	Dr. Souvik Basak, Dr. Nilanjan Ghosh
81	Manami Dhibar	Pharmaceutical Technology	Dr. Santanu Chakraborty
82	Anannya Bose	Pharmaceutical Technology	Prof. Subhabrota Majumdar
83	Susanta Paul	Pharmaceutical Technology	Prof. Subhabrota Majumdar , Prof. Pradip Kumar Karar
84	Tatini Debnath	Pharmaceutical Technology	Prof. Pranabesh Chakraborty , Prof. Jayanta Chattopadhyay
85	Dishari Dutta	Pharmaceutical Technology	Prof. Chowdhury Mobaswar Hossain, Prof. Pranabesh Chakraborty
86	Sudipta Roy	Pharmaceutical Technology	Prof. Pranabesh Chakraborty , Prof. Tapan Kr. Mandal
87	Khandekar Hussan Reza	Pharmaceutical Technology	Prof. Pranabesh Chakraborty , Dr. Anjan Adhikaril , Prof. Chowdhury Mobaswar Hossain

List of GATE Scholars

Sl No	Name	Course	Year
1	Dulal Adak	CSE	2 nd
2	Soumili Rakshit	CSE	2 nd
3	Suman Nandi	CSE	2 nd
4	Neha Das	CSE	2 nd
5	Koyela Chakraborti	CSE	2 nd
6	Anindita Mondal	BIO TECH	2 nd
7	Tanusri Ghosh	CSE	1 st
8	Bilash Halder	CSE	1 st
9	Aakashjit Bhattacharya	CSE	1 st
10	Sweta Manna	CSE	1 st
11	Archisman Roy	CSE	1 st
12	Gopal Mondal	IT	1 st

List of Swami Vivekananda Merit-Cum-Means Scholars

Sanctioned Applicant List for 2018-19 (New)

#	Course	Year	Applicant Name
1	BTech	1 st year	Anupam Ghosh
2	BTech	1 st year	Sagnik Biswas
3	BTech	1 st year	Chayan Biswas
4	BTech	1 st year	Krishna Roy
5	BTech	1 st year	Bikash Shaw
6	MTech	1 st year	Archita Basu
7	MTech	1 st year	Oindrila Paul
8	MTech	1 st year	Sujoy Saha
9	MTech	1 st year	Shuvra Jyoti Bose
10	MTech	1 st year	Dipjyoti Roy
11	MTech	1 st year	Bibekananda Das
12	MTech	1 st year	Sayan Biswas
13	MTech	1 st year	Bhairab Ghatak
14	MTech	1 st year	Chinmoy Das
15	MTech	1 st year	Mrinmoy Karmakar
16	ME	1 st year	Sumana Sikdar
17	ME	1 st year	Manisha Khanra
18	MSc	1 st Year	Rohita Das
19	MSc	1 st Year	Sumana Jana
20	MSc	1 st Year	Shauvik Paik
21	MSc	1 st Year	Sandipan Bera
22	MSc	1 st Year	Tamanash Mondal

Sanctioned Applicant List for 2018-19 (Renewal)

#	Course	Year	Applicant Name
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1	BTech	2 nd Year	Amit Das
2	BTech	2 nd Year	Surabhi Sarkar
3	MTech	2 nd Year	Payel Ghosh Dastider
4	MTech	2 nd Year	Sanjukta Mitra
5	ME	2 nd Year	Milan Pradhan
6	MSc	2 nd year	Susanta Sau

Report from the Office of the Inspector of College

The inspection department is looking after the matters of Affiliation / Renewal Affiliation/ De-affiliation of the AICTE & Non-AICTE courses and Recognition / De-recognition of the different colleges. With a view to accomplishing the aforesaid activities, this department is carrying out the inspection round the year. In the year 2018, there are 194 colleges affiliated to this University. The number of affiliated colleges since 2009-2010 is appended hereunder in tabular form:

Year	AICTE Approved Colleges	Non-AICTE Colleges	Total Colleges
2009-10	116	96	212
2010-11	119	84	203
2011-12	128	84	212
2012-13	120	85	205
2013-14	118	89	207
2014-15	115	85	200
2015-16	113	82	195
2016-17	115	82	197
2017-18	115	79	194
2018-19	114	80	194

Inspections of colleges are being carried out in the modes like Physical Inspection/Paper Inspection through scrutiny of papers/scrutiny through Computerised web-based Management System (CWMS) / Inspection through digital mode.

Physical Inspection:

The inspection department has designed the proforma pertaining to the Self Assessment Report & Inspection Report (SAR & IR) for AICTE approved colleges and Non-AICTE colleges conducting MAKAUT, WB courses for the purpose of inspection of colleges. In that proforma, relevant norms of AICTE /

MAKAUT, WB against each item has been embedded. Furthermore, the list of laboratories mentioning Code against each course semesterwise has been provided in that proforma of SAR & IR. The college concerned where the inspection will be carried out by the Inspection Team/Expert Visit Committee (EVC) fills up the Self Assessment portion of the proforma SAR & IR. At the very beginning of the inspection, the concerned college Authority hands over the filled up SAR & IR duly signed by them to the Inspection Team/Expert Visit Committee (EVC) visiting the said college. The experts of the inspection team verify the Self Assessment made by the college against each item of the filled up SAR & IR and side by side record their observation against each item. The deficiencies as pointed out by the experts are communicated to the concerned college for the qualitative development. Renewal Affiliation Inspection, Surprise Inspection, Inspection for affiliation of Additional Course(s) and inspection for affiliation of new colleges are being carried out by this department.

Scrutiny of Papers through CWMS:

Computerized Web-based Management System (CWMS) comprising three (03) modules namely; (i) Faculty Information System (FIS), (ii) Infrastructure Information System (IIS) and (iii) Web based Management System (WMS) has been developed by this department. All infrastructure-related information of all affiliated colleges are kept in Infrastructure Information System (IIS). The information related to faculty particulars attached to all affiliated Colleges are kept in Faculty Information System (FIS). As all particulars related to the affiliated colleges are kept in the Web, this department is monitoring the colleges through Web-based Management System (WMS). Furthermore, the introduction of this Computerized Web-based Management System (CWMS) has become of immense help for the University particularly in terms of furnishing different types of data to the Regulatory Authorities like UGC, AICTE, MHRD etc. This department is in the process of introduction of the Beta Version of the CWMS.

Digital Inspection:

There are 194 colleges affiliated to this University which are located across the length & breadth of the State of West Bengal. Year after year, the number is being increased. Physical Inspection of all the colleges involving experts of different fields attached to different Institutions is not possible in an Academic Year as experts of different fields are not available for physical inspection of the colleges located in different Districts of West Bengal. The main reason of their non-availability is the travelling of long distance after completion of their respective normal assignment. Inspection of all colleges was under active consideration of the University for some time past. After careful consideration of all aspects pertaining to this matter, the University has decided to carry out the inspection through digital mode in addition to the physical inspection mode carried out at present.

Principle of Digital Inspection mode

The overall system consists of two basic entities: A) Broadcasting Studio at University end and B) College end where digital inspection will be carried out. Both the entities are connected through point-to-point video conferencing mode. At the simplest level, an online meeting (or a meeting over distance) takes place between these two entities, where (i) each participant can see an image of the other, and (ii) both parties are able to speak and listen to the other participants in real time mode. For organizing such an event, software has been designed which is coping up with two basic tasks:

- (i) Captures the voice stream from the microphone, encodes it, transmits to the other participant, and simultaneously decodes the digital voice stream being received from the remote participant in the video conference
- (ii) Bridges both entities together across a digital connection, managing the exchange of voice and video between participants. At either end of the connection, the video and voice traffic is combined and delivered to each participant in the form of a real-time video image and audio stream.

At University end, there is a workstation which is connected by SONY high definition camera, video & audio capture card, microphone, speaker and Panasonic audio mixture device. The laptop or client device at college end is connected with microphone, speaker, SONY HD cam and Logitech CR922 HD camera along with the power backup. The third party selected through the tender process carry the infrastructure for conducting video-conferencing at college-end according to the predefined schedule maintained by the Inspection Department and they are instructed by the expert team at University-end where they move to capture the video of college infrastructure and transmit to the University-end through the software configured by the University. The expert team at the University interacts with teachers, students and other official staff of the college in live mode and also sees the infrastructure of library, various types of labs and other infrastructures of the colleges in live mode. The live streaming information is temporarily stored in to the cloud which will be retrieved later by the workstation at University after the end of point-to-point video-conferencing.

The inspection of affiliated colleges are carried out time to time round the year by this department. In the year (2018-19) the inspection details are appended below:

- | | |
|---|--|
| 1. No. of Existing colleges (2018-19) | - 188 Colleges |
| 2. No. of New Colleges (2018-19) | - 06 Colleges |
| 3. No. of Existing Programmes (2018-19) | - AICTE – 75, Non-AICTE : 29 |
| 4. No. of New Programmes (2018-19) | - AICTE B.Voc course– 17
Non-AICTE course – 19 |
| 5. No. of Colleges inspected (2018-19) | - Physical inspection – 113 Colleges
Digital mode of inspection – 25 Colleges |

Through the above-mentioned exercises, the University is vigilant to monitor the affiliated colleges in order to ensure qualitative development.

Report from the Controller of Examinations Section

Significant Developments during Academic Year 2018-19

The University has 194 affiliated colleges and more than 1, 45,000 students are registered students. The number of students appeared in 2018-19 was at the Even Semester 1, 41,852 and in the Odd Semester 1, 43, 704. There is a sharp difference between regular students and the number of students actually appeared in each

Semester. This is because the University follows no detention policy, hence 10% to 20% students who are given ample chances to reappear in their Backlog papers of the last Even or Odd Semester.

The University conducts the following examinations during a particular academic session —

- According to the Academic Calendar of the University, Odd Semester Examination takes place during December/January and Even Semester Examination are scheduled in May/June every year. This is conducted in all the affiliated colleges as well as the In-House Department of the University.
- Implementation of the Student-Centric Activities like Mandatory Additional Requirement and Continuous Evaluation of the Students with the help of different levels of stake holders.
- Separate Supplementary examination takes place after the publication of the final semester results of the even semester. This is conducted in the University campus itself.
- In addition, the University carries out post-publication review of the Odd and Even semester examination results. Unlike other universities within the Union of India, there is no eligibility criteria. A candidate may apply for all the theory papers, if he or she is not satisfied with the result. But one has to apply as per the notification issued after the publication of results. The student may see their calculated marks and answer-scripts within 6 months of Examination under the RTI Act. 2005.

The University conducts a number of programmes in Engineering, Technology, Management and other professional disciplines. At the undergraduate level, there is a five-year programme (B. Arch), four-year programmes (B. Tech, B. Pharm, B. Optom and BHMCT) and three-year Non-AICTE programmes (BBA, BCA, BSCM, BHM etc.) at the postgraduate level. There is a three-year M C A programme and a host of two-year programmes like M. Tech, M.Pharm, MBA, M. SC, MHA etc.

The Odd Semester Examinations 2018 for the 2018-19 academic session for both UG and PG programmes were held in November-December 2018. The results of UG were declared on 15th February, 2019, the results of B.Voc on 24th April 2019 and the results of PG on 30th April 2019. The PPS/ PPR Results for both UG and PG programmes were published on 15th June, 2019 onwards. A summary of the last Odd semester examination held in 2018-2019 academic session is given below:

Sl.No.	Programme Type (UG/PG)	No of Candidates Appeared	No of Candidates Passed	Pass Percentage
1	Five Year Programmes (UG)	72	70	97.22%
2	Four Year Programmes (UG)	25675	24604	95.83%
3	Three Year Programmes (UG)	7301	6806	93.22%
4	MCA (PG)	503	493	98.01%
5	MBA (PG)	1442	1373	95.21%
6	MTECH/MSC/MPHARM/PBIR (PG)	984	961	97.66%

35555 final semester students appeared in the examinations of Even Semester 2018-19 academic session whose results will be declared shortly.

The University Library

The library was founded in 2004 with a few book racks and some donated books. Now it is a fully functional hybrid library where it is now possible to access printed items as well as the digital holdings in the form of e-books and e-journals, multimedia CDRoms and software.

The Library has more e-resources than the printed resources. It has a collection of around 30000 books among which 18000 (approx) are print books. The library has purchased around 500 new books from TEQIP Fund under TEQIP III programme. The library has also purchased the e-collection of Annual reviews back volume. It also has a good collection of CDs, audio Cassettes and DVDs. The library is focusing on e-resources for multiuser with easy access and zero maintenance cost.

The University library is now member of E-Sodh -Sindhu (UGC Infonet) Digital Library consortia. The University library is subscribing e-database ISID funded by this consortia. It is also subscribing anti-plagiarism software Ithenticate and e-books from renowned publishers like McGraw-Hill, Elsevier, Springer, Pearson Education, Taylor and Francis, Oxford and Cambridge.

As a part of a center of excellence, the library tries to provide modern web-based services along with the traditional services like reading room, lending, photo copying services.

The library has been shifted to the library building of the Main campus of the University, ie, Haringhata Campus. Now the library is occupying only the 1st floor of the library building.

The library is an open access library which gives its user the facility to directly go to the rack and choose his/her own books. The library will provide the reading room service and digital library facility to the students shortly.

The library is giving fully automated lending services to the students along with the faculty members using library management software KOHA. Every student has a login password to access the catalogue from user interface and reserve books. Students can also see their status, ie, whether a book is overdue or not, the reading history etc. from their account.

The library has Web OPAC (URL <http://opac.wbut.ac.in>) facility where all users including students, faculty members, researchers and others can browse through for information regarding library resources from any where within and outside the campus. There is a dedicated machine for searching library resources through library portal near the entrance of the stack-cum-circulation counter to facilitate its users.

Users become aware of the library rules and regulations and how to use the services through library portal. The library alerts the user through notification about the library programme and activities using university's e-mail service. Since all university classrooms are projection-enabled and connected to the internet, digital

resources like images of the CDs accompanying the books, e-books, e-journals of the library can be accessed from class rooms to aid the teaching.

The library is using a single interface, the library portal ([http:// library.wbut.ac.in](http://library.wbut.ac.in)) where the information about library holdings be it the printed collection or the e collection can be obtained through the open source ILS system KOHA . It is the first open source ILS system distributed under GNU GPL licence. Barcodes generated in-house are used to track down each printed item in the catalogue in day to day transaction. eg. Circulation. Glabls is used to generate the barcode. The Koha ILS has been extended to digital library through the integration of a media image server for online, simultaneous, multi-user access to CD/DVD media accompanying print items or otherwise separately published. The media image server can also be searched separately using Namazu. The library is using D-Space -digital repository system to integrate the e-content with the ILS system. The university library is completely networked. The users can access the electronic resources and the Internet through the desktops in the reading room. As the university is connected through Intranet, library resources can be accessed from any where within the campus. The library is also has Wi-Fi connectivity. Users can access the Internet from the library reading room through WI-fi connectivity from their laptops subject to authorization.

The library has taken initiative to encourage the students to read open access books and journals. The library portal has links to the open access books and journals, and National Digital Library. The university has also taken initiatives for bulk registration of students towards the membership of the National Digital Library.

The library is outsourcing the photocopying service and network printing. Photocopy can be done for Re. 1.00 a page. And printing can be done for Rs. 2.00 a page. The network printing service can be accessed from any where within the campus.

Keeping in mind the equal opportunity for all, the university library resource is open to all students and faculty members of affiliated colleges. They can use the university reading room service, can select their books and journals, copy the relevant portion and can also photocopy a limited numbers of pages. They can also use the library e-resources, download and can take print of the required portion using the networked printer. The students and faculty members only need to bring their college ID card to enter the library.

- Books purchased in the library (2018-19) - 495
- Total titles available (2018-19) – 18134 Print books and 10131 e-books
- Books available (2018-19) – Print books and e-books from renowned publisher like McGraw-Hill, Elsevier, Springer, Pearson Education, Taylor and Francis, Oxford and Cambridge.
- Journals available (2018-19) – ISID e-database
- Computer & Software purchase (2018-19) – Ithenticate – Anti-plagiarism software
- Other facilities created for library (2018-19) – NPTEL Video lectures available for students in CD-ROM, National Digital Library membership through Library website. ISID e- data base from E-sodhsindhu consortium for free
- New staff engaged in library (2018-19) - Sushanta Majumdar (Security staff), Susanta Roy (House Keeping staff)
- Total staff in library (2018-19) – 8 including 3 permanent staff

A University with a Difference

- The University produces the largest chunk of technical manpower in the state who serve our industry.
- Introduced several post-Graduate and Doctoral programmes at the University as well as in the affiliated colleges.
- Quick publication of examination results.
- The University covers the entire spatial span of the state for inclusive development of technical resources spread over 15 districts.
- Inclusion of the University in Section 2F and also in Section 12B of the UGC and recipient of UGC grant.
- Receives financial support from the Government of West Bengal and Government of India scholarship grant for M.Tech students with valid GATE score, DBT fellowship for Mtech Biotechnology students.
- The University has been NAAC accredited with B++ grade.
- The University has a "Technology and Business Incubation Center" - (Incubator status approved by Dept. of Science & Technology, India), named "EKTA" for start up business.
- The University actively encourages its employees to upgrade their skills/ competence by providing opportunity to enroll in higher studies.
- After taking steady strides towards digitizing classroom teaching, the Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT,WB) is introducing in lieu of tech driven measures such as digital inspection, centralized e-campussing along with offering plethora of e-courses that can be availed by both students as well as teachers.
- MAKAUT,WB is all set to reshape and transform affiliation system by initiating the Digital Inspection of colleges from the 2019-20 academic session. This sui-generis approach of inspection will not only establish transparency in affiliation system but also reduce cost of physical inspection and time spent considerably .
- Being the largest university MAKAUT,WB affiliates nearly two hundred colleges offering courses in Engineering, Technology, Management and other professional disciplines. More than 1,40,000 students write the examinations every semester and the university churns out around thirty thousand graduates in different technological and management fields every year.
- Video recordings and presentations from the colleges giving details of their infrastructure as well as human resources have already been sought by the university. A digital studio will also be formed where the digital inspections will be monitored and authenticated. The expert members of the Inspection teams will be able to interact with the faculty members, students and authorities of the colleges from the studio itself and obtain a real time assessment of the resources at the disposal of the Colleges seeking affiliation from the University without physically inspecting the premises.
- Further, students Passing out from MAKAUT,WB will no longer need to hunt scores of websites to source out job offers as the University is coming up with its own placement portal where students can access list of interested companies and find out about vacancies. In order to aid students to seek credible job offers MAKAUT,WB has decided to launch this centralized placement portal that will provide a unique platform where students can resource job opportunities and prospective employers too can reach out to students who fit their company profile.
- The university has also re-structured the existing assessment method with continuous evaluation process for the students getting admitted in the 2018-19 academic session based on the model curriculum of All India Council for Technical Education (AICTE). Students will need to earn 160 credits to earn the B.Tech degree and 20 additional credits to secure B.Tech (Hons.) degree, these additional 20 credits are to be earned using digital online platform. The University has already drawn up a basket of courses from different online platforms from which the students may judiciously choose courses to complete the B.Tech (Hons.) degree. For the Non-AICTE courses being offered by the university, the university has specified 120 credits for getting the degree and an additional 16 credits for earning the degree with Hons.

- Students interested in start-up and other entrepreneurial ventures as well as willing to undertake short term training programmes may be allowed to do so and the attendance and other class requirements of these students taken care of through the online courses offered on different platforms.
- The university envisages, this will create a learner-centric environment, improve student attendance, and significantly reduce the time spent in the current system of evaluation. The university has already set in motion the process of preparing the Question and Assignment Banks which will be crucial for implementation of the Continuous Evaluation Process.
- However, not just students but faculties too can avail these courses that will advance their performance score. This will also effectively eliminate the need for faculty members to undergo orientation/refresher courses which frequently disrupt the academic activities and whose efficacy has often been a matter of debate. In the Career Advancement Scheme (CAS) for faculty members, the teachers may be asked to complete a certain number of online courses to be identified by the appropriate Competent Authority of the University. These will carry certain weight in the score of the Academic Performance Indicator (API) and will be duly considered for promotion of the faculty members. Similarly, in the case of carrying out Ph.D coursework for researchers, the applicants may be asked to complete some online courses relevant to their area of research.
- Moreover, the university has emphasized the need to identify the research areas that have industry relevance and cumulatively have societal impact.
- These areas include, disaster and environmental management, agriculture, biomedical applications etc. In fact, in every field of research activity, the tools of information technology will be extensively put to use and collaboration among researchers will be greatly encouraged.

MAKAUT's Initiative in Street Library Movement



Kolkata International Book Fair

Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal has taken an active initiative in collecting books for encouraging and inculcating book reading habits in the society through open libraries.

These are termed as **Street Libraries** by the University and are to be constructed at different locations of the state of West Bengal. In the open library, one will be allowed to read books and also take them home under the condition that one returns it after a certain period or replaces it with books that one owns. Thus the Street Library Movement encourages donation of books also.

At Kolkata International Book Fair

The Book Fair became a platform to put forward this initiative. An Open or Street Library at MAKAUT's stall in the Book Fair attracted many visitors. On this occasion, MAKAUT Vice-Chancellor Prof. Dr. Saikat Maitra said, "We introduced the concept of Street Library at the book fair to inspire people to read and have plans to start this initiative at other places too. We are hopeful that the step will revive the waning interest in reading." For collection of books from donors' place, helpline telephone numbers were also given. This unique venture became quickly popular with the public and people queued up to donate books. Books were donated at the stall itself and a large section of people also took to the idea and assured to lend a helping hand by donating books at regular intervals. It was conveyed at the Book Fair that if necessary, the University representatives may collect books from the residences of the donors.

Street Library on MAKAUT's Salt Lake Campus

A Street Library has already been built on MAKAUT's Salt Lake campus. There are about 5,000 books in this open library, built in collaboration with one of its Affiliated colleges iLead. This place has already become a book lovers' paradise

New Plans

MAKAUT, WB plans to open many other Street Libraries in its affiliated colleges and other places. Shortly another such library is coming up at MAKAUT's Haringhata campus.

School Connect Programmes

The School Connect Programme was restructured Since March, 2019. The objective was to increase the awareness about the professional courses of Maulana Abul Kalam Azad University of Technology (MAKAUT), WB among the school students, concerned authorities and the guardians of different institutions. MAKAUT is trying to reach out to the youth from the very finishing point of their school level to guide them about their future career prospects through its **School Connect Programme**. The aim is to bridge the information gap that comes in the way of their choice of appropriate profession in future. The University has spread its wings and has gone on to introduce new and vibrant programmes under its affiliated colleges, which have to be publicized among the students at the 11-12 level.

In order to spread this message among the school students, MAKAUT, WB is continuously organizing a number of workshops and programmes all over West Bengal. Even the University stall at the Kolkata Book Fair, 2019 distributed Fliers among the young students and career counselling was done by the University representatives on the spot. Through its Book Fair stall, MAKAUT, WB took the opportunity to popularize its professional programmes. The focus was to promote these programmes among the school students, so that our future generation can have a thorough knowledge of various programmes and courses offered at the University, before they step into the job market. This knowledge will help them seek out their interest and follow their passions in pursuing their preferred career options. University has also developed a **Prospectus/Career Guide Book** that entails specific information about the curriculum and corresponding

opportunities in related areas, as well as the Course Outcome and this was displayed in the MAKAUT stall. The recently launched B.Voc programmes and Certification courses in the affiliated colleges of the University also aroused interest among the school students.

The awareness programmes were organized in Rockvale Management College, Kalimpong, i-Lead college in Kolkata (Two workshops), Jain Swetamber Terapanthi Mahasabha in front of students, guardians and teachers of different schools in Burrabazar.

The University also arranged one Awareness Fair and Seminar at Siliguri for aspiring school students along with an interactive session with the teachers and guardians in the month of May. The session focused on the different professional courses of the University and the associated career opportunities.

All these programmes were addressed by the Hon'able Vice Chancellor of MAKAUT, WB, Prof. Dr. Saikat Maitra. He explained to the students the importance of choosing a career for achieving success in their future professional life.

Recently, another such School Connect Programme was organized at Tamluk in an affiliated college of MAKAUT, WB Tamralipta Institute of Management & Technology. It was addressed by Prof. Sibamoy Dasgupta. The prospects of different courses were put forward before the school students participating in the seminar.

Workshop on Digital Health

Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal introduced a new course on digital health that was recently announced at a workshop organised by the University on its Salt Lake Campus on 6th March, 2019. At the outset, the Hon'able Vice Chancellor of the University, Prof. Saikat Maitra stated that Certification and P- diploma courses will be introduced after which a three-year course will start in a modular manner. The objectives of digitization of health services were outlined:

- Reducing inequality among various sections of society with regard to healthcare
- Increasing access to healthcare
- Reducing cost
- Enhancing the quality of care
- Customizing healthcare
- Personalizing medical requirements
- Making arrangements for smart-care in a homely environment

Dr. Indranil Mukherjee stressed that good health is an important aspect of the nation, the objective behind all these being Digital Health.

On behalf of Peerless Hospital, Dr. Subhrojyoti Bhowmick mentioned that the hospital is looking forward to an academic and research collaboration with MAKAUT in the field of Digital Health.

The workshop was organized by MAKAUT, WB in collaboration with TRINNECT Ltd. Finland. The Managing Director of Trinnect Ltd, Dr. Shyam Chakraborty and Dr. Supten Sarbadhikari, an expert in the field of Digital Health graced the occasion. Both of them emphasized the growing importance of digital techniques in healthcare. Dr. Sarbadhikari observed that India can be a leader in Digital Health. Thus MAKAUT's initiative in incorporating courses in Digital Health is definitely a right step forward.



Seminar of Prevention and Early Detection of Common Cancers

Republic Day Celebration

MAKAUT, WB celebrated Republic Day Programme on 26th January, 2019. A flag hoisting ceremony was held in presence of Dr Subhabrata Roychaudhuri, Advisor,MAKAUT,WB. Students and staff members actively participated in a short cultural programme on India's freedom movement with patriotic songs.

130 students and staff members participated in the programme.

National Science Day

The National Science Day was organised on 28th February, 2019 at the Ground Floor Conference Hall of the Academic Building. Eighty organisations from all over West Bengal MAKAUT,WB affiliated colleges took part in the programme.

The National Science Day was inaugurated by Professor Saikat Maitra, Hon'ble Vice Chancellor, MAKAUT,WB. Professor Maitra in his speech stressed on the need of application of academic aspects in the development of new innovative areas of science and technology. Professor Dharani Dhar Patra,Vice Chancellor, Bidhan Chandra Roy Krishi Viswa Vidyalaya was present as Chief Guest On the occasion. Other guests on the occasion were Mr. Pradip Chopra, Chairman iLead, Prof. Satyajit Chakravorty, IEM and others. Professor Sukhendu Samajdar, MAKAUT,WB delivered welcome address and Dr. Subhabrata Roychaudhuri, Advisor, MAKAUT,WB coordinated the entire event. There were various events namely Innovative Science

Models Contest, Seminar event contest by MAKAUT, WB students related to Science & Technology, Science & Technology Poster Contest and Mobile Cam Taken Photography contest.

The First Prize for Innovative Models related to Science & Technology was given to Pratush Das, Tapabrata Mukherjee (IEM), second Md. M. Alam, P.K. Sabnan, Md. Yaseen Saifuddin (B. C. Roy College), third Anand Kumar, Ayush Kumar, Ujjawal Kumar, Karan Kumar (Haldia Inst. of Technology). Seminar Presentation: first Prasanta Thapa, second, Suryamoy Mandal, third Prantik Dutta. Poster Competition: first Monojit Ghosh Suman Dutta (Heritage), Second Sanjukta Biswas, Sharmila Das Gupta (BIT, Hooghly), third Ahana Ghosh (BIT, Hooghly). Mobile Photography: first Ranjan Kharta, second Sijit Sardar, third Mohitosh Agarwal (MAKAUT, WB)

MAKAUT, WB Blood Donation Camp

The Blood Donation Camp was organised by MAKAUT, WB in the active collaboration with National Service Scheme (NSS) at University Guest House Ground Floor premises on 29th March, 2019. Professor Dr Saikat Maitra, Vice Chancellor, MAKAUT, WB inaugurated the camp. A medical team from COM & JNM Hospital came and collected 83 bottles of blood. Donors were mainly students and few academic and office staff members. Certificates and mementos were given to all blood donors. Prof. Mihir Singh, NSS Coordinator was present on the occasion. The blood donation camp was coordinated by Dr Subhabrata Roychaudhuri, Advisor, MAKAUT, WB.

CSR Initiative

The university has contacted the following organisations regarding the CSR funds to MAKAUT, WB for various developmental work.

- Garden Reach Ship Builders And Engineers limited
- Indian Oil Corporation
- Bharat Petroleum Corporation
- Coal India Limited
- BHEL Kolkata Office
- West Bengal Power Development Corporation
- United Corporation Bank Of India

Already detailed projects have been submitted to Coal India Limited, WBPDC and IOCL.

IOCL & BPCL informed that the project should be submitted to District Magistrate Office and the DM may forward the project to the respective concern. And, if approved, the necessary fund would be allocated.

Another CS programme-related training programme for inmates of Presidency Correctional Home in Director General Office, is under process Support of industries regarding funds or materials is awaited.

Yoga Day

Maulana Abul Kalam Azad university celebrated Yoga Day on 21st June. The students of the university participated in the programme.



Placement at MAKAUT, WB

MAKAUT, WB is firmly heading towards the betterment of students' employability through its Training & Placement Cell and consistent regular interaction with Industries. The affiliated Colleges/Institutions also receive adequate support for the employment for students through the Central Placement Committee constituted by the University.

MAKAUT, WB arranges regular guest lectures inviting professionals from industry to mentor the students about the expectations of the industry, corporate etiquettes etc. The students are given adequate opportunity of interaction with these experts. Mock aptitude tests are conducted for the final year students. The officials of the Training & Placement Cell regularly interact with the students and guide them for group discussions and preparation for interviews to make them industry-ready.

The University has a separate Placement Office, under the administrative control of the Hon'ble Vice-Chancellor. The Placement In-Charge Mr. Rana Bandopadhyay, helps students to identify the job opportunities. The Training & Placement Cell conducts the placement and entrepreneurship skill-development workshops in order to improve the soft skills of the students.

The University is also establishing a grooming centre for improving the employability of the students. Most of the students of 2018-19 batch got placed in different companies like Infosys, TCS, WIPRO, L&T Infotech, CTS, EPAM, ICONMA, Subex etc. through on-campus and off-campus drive. A few students opted for higher studies.

The salaries offered to the selected candidates ranged between 3.6 to 4.3 Lakhs.

No. of Placement (2018-19) : 33 Students

No. of Campus drives organised (2018-19) : 12 Companies

No. of Student placed (2018-19) = Total 33

	B. Tech (CSE)	B. Tech (IT)	M.Tech (CSE)	M.Tech (IT)	M.Tech (Biotechnology)
Infosys	7	5	1	1	0

TCS	5	1	0	0	0
WIPRO	1	0	0	0	0
L&T Infotech	1	2	1	0	0
CTS	2	0	1	0	0
EPAM	0	1	0	0	0
ICONMA	0	0	0	0	1
Subex	3	0	0	0	0
TOTAL Nos.	19	09	03	01	01

No. of internship programmes arranged (2018-19) : 8
 Companies as on 30.04.2019
 Other training programmes arranged (2018-19) : 2

Financial Status

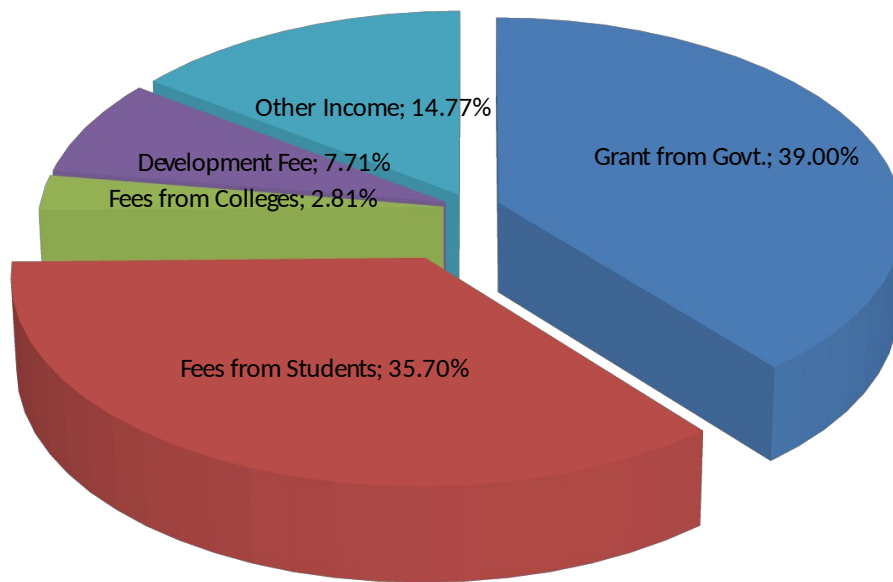
FINANCIAL ANALYSIS

Maulana Abul Kalam Azad University of Technology, West Bengal strictly follows cashless policy and all receipts take place through Banks, Debit/Credit Card and through Paytm and the receipts of entrance examination related payments take place through net banking system. Almost all remuneration payments to the examiners, students, and employees of the University are made through RTGS transfer. The Transaction Audit of the University has been conducted by LAD, CAG up to the Financial Year 2017-18. The accounts of the University are subject to Certification Audit by a Chartered accountants firm after which it gets audited by the Examiner of Local Audit Department of the CAG. Provisional Accounts of the University has been prepared upto FY 2018-19. M/S Price Water Cooper LLP has been entrusted with the responsibility to finalise the Accounts and it is expected that by June, 2019, it will be updated.

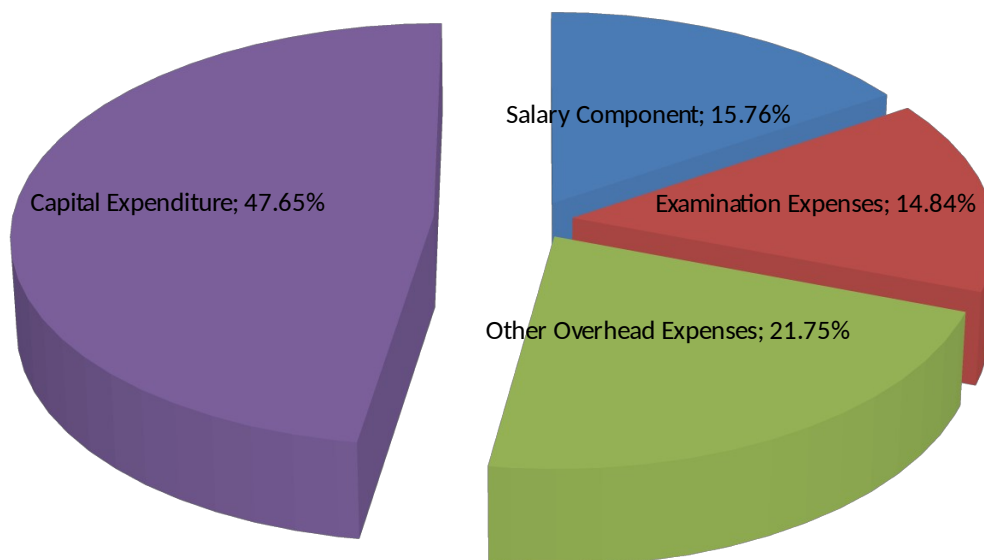
This year major transformation and structural changes are taking place in the University Budget and Budgetary Control System under supervision of the Hon'ble Vice-Chancellor to ensure excellence, efficiency, affordability, accountability, access and transparency. We have tried to allocate resources for core instructional support needs such as instructional equipment, adoption of updated technology and other physical facilities for all 6 Schools to achieve Institutional Planning Goals of the University. The budget is also being reconstructed in the form of Integrated Planning linking vision, priorities, and people in a flexible system of evaluation, decision-making and action.

We have shifted to our state of the art new campus at Haringhata. Sufficient budget provisions have been made to make it a Green Campus as far as possible. Provisions have also been made to develop new technology-advanced learning spaces for new employment generating courses. Provisions have also been made to create a good campus life combining excellent physical facilities with amenities.

Income Budget 2019-20
Total Amt. Rs. 12,891.84 (in Lakhs)



Expenditure Budget 2019-20
Total Amt. Rs. 13,294.57 (in Lakhs)



Budget 2019 – 2020

Heads	Amount (in Lakhs)
Grants from Govt.	5,028.40
Fees from Students	4,602.71
Fees from Colleges	361.90
Development Fee	994.40
Other Income	1,904.43
Total Inflow	12,891.84
Salary Component	2,095.80
Examination Expenses	1972.30
Other Overhead Expenses	2891.57
Capital Expenditure	6,334.90
Total Outflow	13,294.57
Deficit	-402.73

It may be mentioned here that all the investments of the University are being made with the existing banker of the University complying the order of the Finance Department, Govt. of West Bengal and all purchases / procurements are made complying the procurement norms of the State Govt. The Accounts of the University are subject to continuous Internal Audit System by the Govt.-empanelled Chartered Accountants firms selected through proper administrative procedure. The system of the Finance Department is ERP driven, which was developed by a Central Government Agency. The process is on to migrate to a more technologically advanced full proof ERP System. All payments are made after verifying Stock Book Entry & Goods Receipt Note (GRN), which is to be mentioned on the top sheet of each and every bill as per the requirement of the system. All Projects sanctioned by different Central / State Funding Agencies have got their respective Savings Accounts of which the Project coordinator and the Finance Officer are the joint signatories. For all other payments of the University, the Finance Officer & Registrar happen to be the joint signatories of the cheques.

The entire Finance Department always performs to the best of its ability to be academic facilitator unit to give the financial governance of the University a human face.

Hostels for Students

Hostel for Boy's

Boy's Hostel started functioning from June 2018 with a fully residential nature and lies in the lush green area of the university.

In terms of infrastructure, altogether, there are 192 rooms in the Hostel which can accommodate more than 365 students. In 2018-19 session, 165 students reside in the Hostel. Each and every student is provided with excellent facilities. All the floors have facility for cold drinking water. There is a central facility for using washing machines. Students are provided bi-cycles also to ride inside the campus. The Hostel has the free wi-fi facility for all the boarders. A power back-up facility is there to ensure uninterrupted power supply. The hostel has television and indoor game facilities. A Central Gym facility with a Gym Instructor is there in the hostel.



Canteen at Boy's Hostel

The boy's hostel is a smoke-free and alcohol-free zone. Hostel authorities are constantly monitoring to keep the hostel free from any incident of ragging and any kind of misconduct.

Hostel for Girl's



MAKAUT, WB Girl's Hostel

This year we have inaugurated our girl's hostel in Haringhata main campus. We have 68 energetic and aspiring young girls residing in our hostel. The hostel administration is mainly managed by Registrar and

Hostel superintendent, day-to-day decisions, related to the students is taken in consultation with them, ensuring collective and concerted decision-making process.

INFRASTRUCTURE & FACILITIES

Rooms

There are 70 living rooms in the girl's hostel. All rooms are self-contained. The other rooms include one guest room, one superintendent room, 3 common rooms, 3 electric rooms and one washing machine room. The total capacity of the girl's hostel is 186 students. At present, there are 68 students in the hostel. There are two aqua guards for water purification in the hostel. There is a canteen attached to the girl's hostel.

Room's details :

- 3 boarder room -46
Each room contains bedsteads with beds, chairs, tables, almirahs, ceiling fans, tube lights, light points and other plug points for computer or Mobile charging.
- 2 boarder room -24
- Guest Room -1
Guest room for parents contains bedsteads, table, almirah, attached toilet bathroom
- As Superintendent is residential, one room is in use as Superintendent's residence.
- Common Room – 3

News-papers and magazines are provided in the Common Room. Carom-board, Chess and Table Tennis facilities are also available to the residents in the Common Room. A big Television is also in place.

Wi-fi :

Hostel residents are provided with wi-fi facility. 24-hour Internet service is available.

Washing Machine :

We have washing machine service available.

Sports accessories :

Sl.No	Name	Quantity
1	Football	1
2	Badminton rackets	4
3	Chess board with coins	4
4	Skiping Rope	6
5	Table Tennis Racquet	6

Bi-cycles :

Bi-cycles are provided to the boarders only to be used inside the university campus



Security and Housekeeping :

We have Security and Housekeeping services in our hostel. They are always available at our service.



Canteen

The hostel has a separate canteen where residents can take their meals. It is managed by the hostel committee under the supervision of the superintendent and operated on cost basis. The menu is decided by the hostel committee. The canteen is operated thrice a day –at breakfast, lunch and dinner



Girl's hostel Canteen

MAKAUT,WB In-House hostel fees							
Hostel Fees	Admission Fee	Semester Charge	Hostel Charge (per Sem)	ID Card	Cautious Money	Misc. Charge (per Sem)	Total
At the time of admission	500	100	9000	50	10000	600	20250
For subsequent semesters		100	9000			600	9700

Report of Technical Education Quality Improvement Programme (TEQIP) for 2018-19

TEQIP III Activities:

- Total allocation of the Financial Year 2018- 2019 was Rs. 2,64,90,390/- and total expenditure incurred during the Financial Year 2018-2019 was Rs. 93, 85,687/- .
- During the financial year 2018-2019 following are the expenditure incurred under the heads
 - Procurement – Rs. 20, 56, 365/-
 - Academic – Rs. 67, 21, 473/-
 - Incremental Operating Cost – Rs. 6,07,849/-
- Performance Audit was conducted during 26th – 29th August, 2018 and total expenses was Rs. 74,442/-.
- Trainings/ Workshops/ Meetings Attended/Organized:
 - Registration fees paid to CSI Kolkata for National Cyber security Summit on 06th October 2018
Total Expenditure was Rs. 20,605/-

- A meeting was conducted with IUST at Jammu during 23rd - 27th September 2018 which was attended by Dr. Debasis Giri and Dr. Ranjita Biswas. Total approved budget was Rs. 54,283/-.
- Faculty Development program during 28th September 2018 to 30th September 2018 total expenditure was Rs. Rs.1,65,894/-
- Mentor, Prof. Pramod Kumar visited during 28th – 29th October, 2018 and total expenditure was Rs. 63,000/-.
- Dr. Ranjita Biswas attended a meeting on EAP at Bhubaneswar on 30th November 2018 and total expenditure was Rs.27,294 /-
- Dr. Debasis Giri attended a GDP training at IIM Tirchy during 3rd December, 2018 to 7th December, 2018 and total expenditure was Rs. 27,422/-.
- NBA/NAAC workshop was organised under TEQIP III during January 3rd - 7th, 2019 and total expenditure was Rs. 9,69,748/-
- A review meeting under TEQIP III was organized by NPIU at Chandigarh on 29th January, 2019 which was attended by Dr. Debasis Giri and total expenses was Rs. 48,520/-.
- A workshop on Cryptography and Cyber security was organised under TEQIP III during February 12th -16th, 2019 and total expenditure was Rs. 3,32,350/-
- A workshop on Sustainable Food Processing and Technologies was organised under TEQIP III during February 21st -22nd, 2019 and the total expenditure was Rs.89, 000/-.
- One Research Assistant, Soumya Kanti Ghosh had visited NCCS at Pune during September 2018. Total expenditure was Rs. 4,728/-
- A training on MIS was organized by NPIU at IIIT Guwahati during 15th - 16th March 2019 which were attended by Mr. Bivash Mallick and Pramod Kumar Bhagat and total expenditure was Rs. 33,332/-.
- PMSS training was organized by NPIU at Jadavpur University during 12 -13th March 2019 which was attended by Ms. Sayantani Saha and Mr. Pramod Kumar Bhagat and total expenditure was Rs.942/-.
- Two students of Department of Biotechnology attended a workshop cum symposium at IIT Guwahati on 13th -16th March, 2019. Total expenditure was Rs. 24,811/-.
- A workshop on Machine learning with Python and Deep Learning Approach was organized under TEQIP III during March 25th -29th, 2019 and total expenditure was Rs. 2,29,750/-.

Papers presented by Faculty / Students

Sl No	Applicant Name	Purpose	Amount(Rs.)
1	DR. DEBASHIS DE	REIMBURSEMENT OF REGISTRATION FEES FOR PAPER PRESENTATION IN CONFERENCE (IEEE EDKCON 2018)	Rs.4165/-
2	SANJUKTA MITRA	REIMBURSEMENT OF REGISTRATION FEES FOR PAPER PRESENTATION IN CONFERENCE (IEEE EDKCON 2018)	Rs. 4165/-

3	TANAYA PAUL (Research Assistants)	REIMBURSEMENT OF REGISTRATION FEES FOR PAPER PRESENTATION IN THE 7TH INTERNATIONAL CONFERENCE IN KOLKATA	Rs. 6750/-
4	DR. DEBASIS GIRI	REIMBURSEMENT OF CHARGES FOR PAPER PUBLICATION IN IEEE	Rs. 36819/-
5	SADIP MIDYA (Research Assistants)	REIMBURSEMENT FOR REGISTRATION FEES FOR PAPER PRESENTATION IN THE 4 TH INTERNATIONAL CONFERENCE IN KOLKATA 20 th – 22 nd November, 2018	Rs. 8500/-
6	DR. TAPAS GHOSH	REIMBURSEMENT FOR TRAVELLING EXPENSES FOR ATTENDING TEQIP III SHORT TERM COUSE AT IIT KHARAGPUR	Rs. 372/-
7	ASHMITA ROY (Research Assistants)	REIMBURSEMENT FOR REGISTRATION FEES FOR TWO PAPER PRESENTATION IN THE 4 TH INTERNATIONAL CONFERENCE 20 th – 22 nd November, 2018	Rs. 17000/-
8	DEEPSUBHRA GUHA ROY (Research Assistants)	ATTENDING THE INTERNATIONAL CONFERENCE AT DELHI 'URSI ASIA PACIFIC RADIO SCIENCE CONFERENCE DURING 9TH -15TH MARCH, 2019	Rs. 36028/-
9	ISHITA BHAKTA (Research Assistants)	APPLICATION FOR FUNDS TO ATTEND THE 2ND INTERNATIONAL CONFERENCE AT HALDIA INSTITUTE OF TECHNOLOGY	Rs. 5000/-
10	DR. SANTANU PHADIKAR	REIMBURSEMENT OF REGISTRATION FEE FOR ACCEPTED PAPER FOR PRESENTATION AND PARTICIPATION AT THE ICRCICN-2018	Rs. 8500/-
11	RABI DEYASHI	REIMBURSEMENT FOR ATTENDING INTERNSHIP EXPENSES DURING 05 TH JANUARY 2019 – 24 TH JANUARY 2019 AT IIT GUWAHATI	Rs. 6120/-
12	ANIRBAN PURKAIT	REIMBURSEMENT FOR ATTENDING INTERNSHIP EXPENSES DURING 05 TH JANUARY 2019 – 24 TH JANUARY 2019 AT IIT GUWAHATI	Rs. 6120/-
13	SOUMYADAS	REIMBURSEMENT FOR ATTENDING INTERNSHIP EXPENSES DURING 27 TH DECEMBER 2018 – 24 TH JANUARY 2019 AT NIT ROURKELA	Rs. 5390/-
14	AMITAVA MITRA	REIMBURSEMENT FOR ATTENDING INTERNSHIP EXPENSES DURING 27 TH DECEMBER 2018 – 24 TH JANUARY 2019 AT	Rs. 5340/-

		NIT ROURKELA	
15	PINAK ROY CHOWDHURY	REIMBURSEMENT FOR ATTENDING SUMMER RESEARCH INTERNSHIP EXPENSES DURING 04 TH JUNE 2018- 15 TH JULY 2018 AT IIITM GWALIOR.	Rs. 4390/-
16	16 M.TECH STUDENTS OF IEM DEPARTMENT	APPLICATION FOR REIMBURSEMENT FOR REGISTRATION FEES FOR ONLINE COURSES (NPTEL)	Rs. 26400/-
17	MAINAK GHOSH	REIMBURSEMENT FOR ATTENDING WORKSHOP IN IIT GUWAHATI DURING 26 TH – 30 TH November 2019	Rs. 6921/-
18	15 M.TECH STUDENTS OF IEM DEPARTMENT	REIMBURSEMENT FOR ATTENDING WORKSHOP IN IIT GUWAHATI DURING 26 TH – 30 TH November 2019	Rs. 26126/-

Research Assistants under TEQIP III

<i>Name of Research Assistants</i>
Asmita Roy (Computer Science & Engineering)
Biswajit Jana (Computer Science & Engineering)
Deepsubhra Guha Roy (Computer Science & Engineering)
Ishita Bhakta (Computer Science & Engineering)
Joyeeta Chakraborty (Biotechnology)
Kunal Biswas (Biotechnology)
Mandar Bhattacharyya (Biotechnology)
Priti Deb (Computer Science & Engineering)
Ramesh Saha (Computer Science & Engineering)
Sadip Midya (Computer Science & Engineering)
Soumya Kanti Ghosh (Bioinformatics DBT-BIF)
Suman Mitra (Computer Science & Engineering)
Swagata Roy Chowdhury (Biotechnology)
Tanaya Paul (Biotechnology)
Tanmoy Mondal (Biotechnology)

Members of BoG Committee

Sl. No.	Name	Designation
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1	Prof. Saikat Maitra	Vice Chancellor, MAKAUT, WB
2	Dr. Partha Pratim Lahiri	Registrar, MAKAUT, WB
3	Dr. Atri Bhowmik	Finance Officer, MAKAUT, WB
4	Dr. Md. Aftabuddin	Information Scientist, MAKAUT, WB
5	Dr. Debasis Giri	TEQIP III Coordinator, MAKAUT, WB
6	Dr. Ranjita Biswas	Nodal Officer, Academic TEQIP – III MAKAUT, WB
7	Dr. Debdyut Naskar	Nodal Officer Finance TEQIP – III, MAKAUT, WB
8	Ms. Sayantani Saha	Nodal Officer, Procurement TEQIP – III, MAKAUT, WB
9	Dr. Santanu Phadikar	Start up Coordinator, MAKAUT, WB
10	Prof. Dhruvajyoti Chattopadhyay	Vice Chancellor, Amity University Kolkata
11	Prof. Sankar Kumar Ghosh	Vice Chancellor, Kalyani University
12	Prof. Basab Chaudhuri	Vice Chancellor, West Bengal State University
13	Prof. Nabendu Chaki	Prof. Dept. of CSE, CU
14	Prof. Biswajit Ghosh	Vice Chancellor, TNU
15	Tanushyam Chattopadhyay	Senior Scientist, TCS Research and Innovation LABS
16	Dr. Gairik Das	Professor, Dept. of Management. IISWBM

Purchase Committee under TEQIP III

- Vice Chancellor, MAKAUT, WB – Chairman Hon'ble
- Finance Officer, MAKAUT, WB -Members
- Assistant Registrar, MAKAUT, WB - Members
- Prof. Debashis De, Director, School of Computational Sciences - Members
- Prof. Indranil Mukherjee, Director, School of Natural Science - Members
- Prof. Raja Banerjee, Director, School of Biological Sciences - Members
- Prof. Sibamoy Dasgupta, Director, School of Engineering Sciences - Members
- Dr. Somdatta Chakravorty, Head of IT Department & Director, IQAC Cell- Members
- Dr. Debdyut Naskar, Nodal Officer Finance, TEQIP III - Members
- Dr. Ranjita Biswas, Nodal Officer Academic, TEQIP III - Members
- Dr. Debasis Giri, TEQIP Coordinator - Members
- Ms. Sayantani Saha, Nodal Officer Procurement, TEQIP III – Convenor

TEQIP III Team:

- Dr. Debasis Giri TEQIP III Coordinator
- Dr. Ranjita Biswas Academic Nodal Officer
- Dr. Debdtut Naskar Finance Nodal Officer
- Ms. Sayantani Saha Procurement Nodal Officer
- Dr. Santanu Phadikar, Start Up Coordinator
- Dr. Somdatta Chakravorty, & Dr. Soumen Kumar Pati, Twinning Coordinator

- Dr. Pradyut Sarkar, MIS Nodal Officer

Minutes of the 2ndBoG Meeting of TEQIP – III held on 12th June, 2018_

The meeting of the 2ndBoG of TEQIP – III held on 12th June, 2018 was chaired by Prof. Dhruvajyoti Chattopadhyay, Vice Chancellor, Amity University, Kolkata. He welcomed the members present.

Minutes of the first meeting was circulated. The same was confirmed.

Procurement:

Agenda No. a: Proposal of Nodal Centres

The seven Nodal Centres were intimated to the BoG members. The members are in agreement that the Centres would help the Mentee Institution (IUST). BoG members strongly believe that the university should take the responsibility in making these centres sustainable. The centres should be grouped in a manner, so that it would be convenient for NPIU to approve.

The BoG has proposed to focus on only three centres for the benefit of the mentee and mentor institute.

It is further resolved that as per direction of the Hon'ble Vice Chancellor of MAKAUT, WB, a committee would be formed, followed by a meeting which is proposed to be conducted in the month of June, 2018 for valuable suggestions and guidance in constructing the centre for Biological Studies.

It was also agreed upon by the members that all necessary requirements for the focused centres would be procured within August, 2018 as per TEQIP – III norms.

Agenda No. b: Reporting of Procurement activities

It is reported that purchase of learning resources, like e-books and study materials worth Rs. 20, 56,365/- through the procurement method of TEQIP – III, would be completed during April – June, 2018 quarter.

Academic:

Agenda No. a: Proposal for a workshop on research methodology with CSI was placed before the committee. The proposal was accepted.

Agenda No.b: Reporting of the Research Fellow Convention 2018 dated 18th April, 2018 at Haringhata Campus was made by the Academic Nodal Officer. It was proposed that a committee will be formed for the evaluation of activities of Research Assistants. It was reported that all Research Assistants should be encouraged to focus their research work in projects/ topics having direct relevance to the Society and should collaborate with Industries / Hospitals, Foreign Universities, other Institutions as deemed fit .However Prof. Dhruvajyoti Chattopadhyay pointed out that Scientific Research (Basic Sciences) should be carried on along with projects having industries linkages.

Agenda No c: Reporting of the academic activities

- All other academic activities undertaken so far were reported by the Academic Nodal Officer. The following activities are reported in the meeting:-
Workshops, Seminars, etc. organized by MAKAUT, WB
 - *A workshop on Smart Learning and Flipped Learning Program was held on 23rd March, 2018 at Haringhata Campus of MAKAUT, WB. Total Expenses – Rs. 43675/-.*
 - *A seminar on cancer awareness was held on 22nd March, 2018 under TEQIP – III. Total Expenses – Rs. 37923/-*
 - *One day seminar on Intelligent Earth and Deep Learning was held on 29th March, 2018 at Salt Lake campus of MAKAUT, WB. Total Expenses – 36156/-.*

- A meeting-cum-workshop on formation of MAKAUT, WB e – resource consortia was conducted on 29th March, 2018 under TEQIP – III. Total Expenses – Rs. 92894/-.
- A 1-week workshop on Data Science with R jointly was organized with MAKAUT, WB and IUST on 23rd – 29th March, 2018 at Government College of Engineering and Ceramic Technology, Kolkata. Total Expenses ----- Rs. 103589/-.
- A workshop on 'New Innovations in cloud and Fog computing' was held on 4th – 6th May, 2018 at MAKAUT, WB. Total expenses - Rs. 67975/-.

Activities involving students & teachers

- We are conducting the General measure of Enterprising Tendency Test for our students and faculty members. First Test was conducted during April -2018 based on the availability of free periods. Approved budget for the program is Rs. 23750/-.
- A Research Project Convention was held on 18th April, 2018 at Haringhata Campus of MAKAUT, WB. Total Expenses – Rs. 12362/- (For TEQIP III Research Assistantship)

Trainings / Workshops Attended

- All India workshop on “Six Sigma Fundamentals and Applications” organized at Jadavpur University on 16th – 17th March, 2018, was attended by 25 participants of IEM Department. Budget ---- Rs. 125000/-.
- A workshop on Next Generation Sequencing & Big Data Analysis was held on 20th – 21st March, 2018 at IICB Translational Research Unit of Excellence, CSIR – Indian Institute of Chemical Biology, Salt Lake, and Kolkata under TEQIP – III. Total 20 participants. Total Expenses – Rs. 96000/-
- An Industry visit to Taratala, Kolkata was organized for students of Biotech Department on 19th March, 2018. Total Expenses Rs. 19898/-.

Papers presented by Faculty / Students

- Biswajit Kundu, Mani Shankar Prasad, Progyan Bhattacharya (Guide: Dr. Kaushik Majumder), attended the Onsite Competition for ACM International Collegiate Programming Contest 2018 in Amritapuri, Kerala. This competition was held during 26th – 27th December, 2017. Total Expenses – Rs. 9110/-.
- Jay Karia, Satyam Kumar, Sumit Kumar Mridha (Guide: Saikat Basu), attended the Onsite Competition for ACM International Collegiate Programming Contest 2018 at Kanpur Site. This competition was held during 23rd – 24th December, 2017. Total Expenses – Rs. 7250/-.
- Dr. Santanu Phadikar's paper was accepted at the 52nd Annual Convention of Computer Society of India (CSI – 2017). This conference was held during 19th – 21st January, 2018 at Science City, Kolkata. Total Expenses – Rs. 7500/-.
- Avishek Pandey (Guide: Bivash Mallick) participated in the conference on “ Leveraging Simulation and Optimization Techniques for Manufacturing Excellence and Productivity Enhancement” at Tatanagar on 13th February, 2018. Total Expenses – Rs. 2900/-.
- Asmita Roy's (R.A.) paper was accepted in the International Ethical Hacking Conference at IEM, Kolkata (Guide: Dr. Kaushik Majumder & Dr. Santanu Phadikar). This was held during 6th – 7th April, 2018. Total Expenses – Rs. 4000/-.
- Ishita Bhakta's (R.A.) paper was accepted at the 52nd Annual Convention of Computer Society of India (CSI – 2017) (Guide: Dr. Santanu Phadikar & Dr. Kaushik Majumder). This conference was held during 19th – 21st January, 2018 at Science City, Kolkata. Total Expenses – Rs. 7500/-.

- Kamalika Bhattacharjya (Guide: Dr. Debashis De) participated in the 6th International Conference on Computing Communication and Sensor Network 2017(CCSN 2017) in Kolkata during 30th – 31st December, 2017. Total Expenses – Rs. 6500/-.
- Kunal Biswas (R.A.), Tanaya Paul (R.A.), Arghajit Biswas(M.Tech), Sudhanshu Mishra(M.Tech), Nayan Pandey(M.Tech)and Dr. Jaya Bandyopadhyay participated in the 2nd Indian Worm Meet -2018 at NII, New Delhi (23rd – 26th February, 2018). Abstracts for poster sessions were accepted in the same meeting at New Delhi. Total Expenses – Rs. 40849/-.
- Two papers submitted by Dr. Suparna Biswas had been accepted for paper presenting in IEEE WISPNET 2018 on 22nd – 24th March, 2018 at SSN College of Engineering at Chennai. Total Expenses – Rs. 18994/-.
- Suman Mitra (R.A.) and Biswajit Jana (R.A.) (Guide: Prof. Sriyankar Acharyya) Attended a workshop on 'Recent Trend in Machine Learning and Soft Computing' at NIT, Durgapur during 16th - 20th April, 2018. Total Expenses – Rs. 17000/-.
- Avijit Kumar Paul (M.Tech)(Guide: Dr. Debashis De) participated in MICRO – 2018 Conference at Bhubaneswar during 19th – 20th May, 2018. Total Expenses – Rs. 9390/-.
- Kunal Biswas (R.A.)(Guide: Dr. Jaya Bandyopadhyay), Paper presented poster in National seminar on 'Recent Advance in Pharmaceutical Sciences and Research' at Bengal College of Pharmaceutical Science and Research, Durgapur on 27th -28th April, 2018. (Recipient of Best poster award).

Agenda No. d. It was also discussed by the BoG members that the prescribed 13 activities as mentioned in the twinning arrangements, should be focused for mentoring of the mentee institute. This should include Soft Skill Development programs, Study of online courses, training for GATE aspirants followed by some mock tests etc.

Agenda No. e. It was also agreed upon that a formal letter should be issued to Mr. Subhanjan Sarkar for acting as the GATE coordinator of MAKAUT, WB

IOC:

Agenda No a: - It was agreed upon that purchase of consumables and contingency items would be made from the IOC head.

Agenda No b:-Salary enhancement of TEQIP Staff

The BoG members feel that the proposal should be placed before the respective department's committee meetings and not before the BoG committee for any such advice.

Agenda No c:- Audit will be conducted by finance department

Finance officer of MAKAUT, WB clarified the fact that the audit would be conducted by a third party.

Agenda No d:

To encourage other faculties from academic departments to actively participate in TEQIP – III activities, the present coordinator and all nodal officers feel the necessity for a complete replacement of their responsibilities at least for one year. The proposal was summarily rejected by the committee members.

Agenda No. e: Matters arising with the permission of the Chair

New Research Assistants under TEQIP – III :-

It was agreed unanimously by the members that new Research Assistants would be appointed following TEQIP – III norms. It was also agreed upon that priority will be given to faculties not having a single Research Assistant presently from TEQIP - III.

The Meeting ended with Vote of Thanks to the Chair.

New In-House Certificate Courses Started

MAKAUT,WB has started the following in-house six month certification programmes at Haringhata campus, Nadia.

- i) Core Networking
- ii) Advanced Computational Science
- iii) Web Application Design
- iv) Artificial Intelligence
- v) Data Science with R
- vi) Data Analytics with Python

Certificate Courses Started with Partners

In addition to the above mentioned certification and P.G. Diploma Programmes, the university with a view to increasing and widening the professional skills of youths, MAKAUT,WB has signed a number of MOUs with partners for introduction of certification and Post Graduate Diploma courses whose details are listed below.

Admission notice for a few courses has already been given and corresponding admission procedure has been started. Some of the classes have already been started.

Eligibility Criteria for Admission:

- a) Higher Secondary Examination (10+2 level) for certification programmes.
- b) Bachelor's Degree in Science or Technology for PGD programmes.

Sl No	Name of partners	Date of Signing MOU	Courses offered	Duration of courses
1.	Merchants' Chamber of Commerce & Industry	03.07.2018	Certificate, Diploma, UG & PG Industry Specific Engineering and Business Management Courses.	up to one Year
2.	ATA InfoTech Ventures PVT.LTD	12.12.2018	PGD in Cloud Computing. PGD in Cyber Security. Certification Course in 3D Printing. Certification Course in Python. Certification Course in Soft Skill & Communication. Certification Course in Web Development. Certification Course in C, C++ & Data Structure. Certification Course in Virtualization. Certification Course in Network Administration. Certification Course in Cloud Computing.	One year One Year 3 Months 3 Months 3 Months 3 Months 3 Months 3 Months 3 Months 3 Months

			Certification Course in Cyber Security. Certification Course in BIG DATA & HADOOP.	3 Months 3 Months
3.	Administrative Training Institute, WB	13.12.2018	PG degree in Public Management to the officer Trainees of WBCS(EX.) One year PGD in Governance & public Policy to the officer Trainings of IAS.	Two Years One Year
4.	TWT Academy of Aviation & Management (Subsequently re-named as ASPIRE-IIT)	25.12.2018	Certification Course on Drone Operation and Maintenance.	6 Months
5.	Webel Informatics Limited	01.01.2019	Different PGD & Certification Courses regarding computer software & hardware.	PGD for One Year. Certification Course for 60 to 192 Hours.
6.	TCG Digital Solutions Pvt.Ltd.	19.01.2019	PGD in Cyber Security.	6 Months
7.	DCG AILABS Academy Pvt. Ltd.	21.01.2019	PGD in Machine Learning.	12 Months
8.	Susrut Eye Foundation & Research Centre	25.01.2019	“Eye Mitra Optician” Certificate Course.	1 Year
9.	Trinnect Ltd, Anjankuja, Finland	02.02.2019	Post Graduate Diploma in Health Informatics and Telemedicine/Machine Learning and Artificial Intelligence Certificate Course in Health Informatics and Telemedicine	One year 3 months
10	Cambridge Marketing College, UK	21.02.2019	Digital Marketing certificate programme P.G. Digital Marketing Diploma Programme Faculty Development Programme (FDP) (Seminars) Continuous Professional Development Programme (CPD) (Workshops)	6 months 12 months Short duration programmes
11	Opsis System Pvt. Ltd	29.03.2019	Post Graduate Diploma in “SPATIAL SCIENCE” which was later renamed as “GEOSPATIAL SCIENCE & TECHNOLOGY”	One Year
12	Aunwsha Knowledge Technologies Pvt. Ltd	29.03.2019	Post Graduate Diploma in New and Emerging Technologies Post Graduate Certificate in New and Emerging Technologies Certificate programme in Soft Skills	1 year 6 months 3 months

List of Affiliated Colleges along with Courses offered

The University had 194 affiliated colleges in 2017-18 situated in all over West Bengal.

Cod e	College	Address	Lev el	Name of the Course	Inta ke
101	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE	JALPAIGURI GOVT. ENGG COLLEGE, JALPAIGURI - 735102 WEST BENGAL Tel: (03561) 255132 Telefax: (03561) 255131 E-mail: slg_jgec@ernet.in	UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	60
			PG	MECHANICAL ENGINEERING	15
			PG	ELECTRICAL ENGINEERING	15
102	KALYANI GOVERNMENT ENGINEERING COLLEGE	KALYANI UNIVERSITY CAMPUS KALYANI- 741235, DIST. NADIA WEST BENGAL INDIA Tel: (033) 2582-6680 Telefax: (033) 2582-1309 E-mail: achintya_das@yahoo.co.in	UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	60
			PG	COMPUTER SCIENCE & ENGINEERING	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	PRODUCTION ENGINEERING	18
			PG	ELECTRICAL ENGINEERING	18
			PG	INFORMATION TECHNOLOGY	18
			PG	MASTERS IN COMPUTER APPLICATIONS	40
103	HALDIA INSTITUTE OF TECHNOLOGY	ICARE COMPLEX; HIT CAMPUS, HALDIA, PURBA MEDINIPUR, WEST BENGAL, 721657 Tel: (03224) 252900 Telefax: (03224) 252800, 253062 E-mail: kgp- hit123@sancharnet.in	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	BIOTECHNOLOGY	60
			UG	CHEMICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	FOOD TECHNOLOGY	60
			UG	INFORMATION TECHNOLOGY	60
			UG	INSTRUMENTATION AND CONTROL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	120
			UG	PRODUCTION ENGINEERING	60
			PG	MECHANICAL ENGINEERING	18
			PG	CHEMICAL ENGINEERING	18

			PG	BIOTECHNOLOGY	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
104	INSTITUTE OF ENGINEERING & MANAGEMENT	SALT LAKE ELECTRONICS COMPLEX, SECTOR-V, KOLKATA-700091 Tel: (033) 2357-2059/7649/8189/8908 Fax: (033) 2357-8320 E-mail: admin@iemcal.com	UG	COMPUTER SCIENCE AND ENGINEERING	180
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	180
			UG	INFORMATION TECHNOLOGY	120
			UG	ELECTRICAL ENGINEERING	120
			UG	MECHANICAL ENGINEERING	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			PG	INFORMATION TECHNOLOGY	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	180
105	BANKURA UNNAYANI INSTITUTE OF ENGINEERING	AT : POHABAGAN, BHAGABANDH, BANKURA, WEST BENGAL, 722146 Tel: (03242) 259360, 255955/855 Fax (03242) 255955 E-mail: bku_eng@sancharnet.in	UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	30
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	30
			PG	COMPUTER SCIENCE & ENGINEERING	18
			PG	VLSI AND MICROELECTRONICS	18
106	MURSHIDABAD COLLEGE OF ENGINEERING & TECHNOLOGY	BANJETIA, BERHAMPORE, MURSHIDABAD, WEST BENGAL, 742102 Telefax: (03482) 251191, 258145 E-mail: mcetbhb@sancharnet.in	UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATIONS ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
107	COLLEGE OF ENGINEERING &	P.O.:KTPP TOWNSHIP, DIST.: PURBA MEDINIPUR, PIN-721 171, WEST BENGAL	UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	ELECTRICAL ENGINEERING	60

	MANAGEMENT , KOLAGHAT	Tel: (03228) 249443, 250600/971 Fax: (03228) 250880 E-mail: cemk_director@rediffmail. com/director@cemk.ac.in	UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
108	ASANSOL ENGINEERING COLLEGE	VIVEKANANDA SARANI KANYAPUR, ASANSOL, BARDHAMAN, WEST BENGAL 713305 Telefax: (0341) 2253057/2108 E-mail: dgp_aec@sancharnet.in	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	90
			UG	MECHANICAL ENGINEERING	120
			PG	ELECTRONICS & COMMUNICATION ENGG	13
			PG	ELECTRICAL ENGINEERING	13
			PG	MASTERS IN COMPUTER APPLICATIONS	60
109	NETAJI SUBHASH ENGINEERING COLLEGE	TECHNO CITY, GARIA, KOLKATA-700152 Tel: (033) 2436-3333/1285 Fax: (033) 2436-1286 E-mail: principal_nsec@rediffmail. com nsec@giascal01.vsnl.net.in	UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	CIVIL ENGINEERING	120
			UG	BIOMEDICAL ENGINEERING	30
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	90
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	ELECTRICAL ENGINEERING	120
			UG	MECHANICAL ENGINEERING	120
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	CONTROL AND INSTRUMENTATION	18
			PG	POWER SYSTEMS	36
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
110	GOVT. COLLEGE OF ENGG. & TEXTILE TECHNOLOGY, SERAMPORE	12, WILLIAM CARRY ROAD, DIST. HOOGHLY, SERAMPORE, HOOGHLY, WEST BENGAL, 712201 Tel: (033) 2662-1058/3156 E-mail: ctts@giascl01.vsnl.net.in	UG	TEXTILE TECHNOLOGY	60
			UG	INFORMATION TECHNOLOGY	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	APPAREL AND PRODUCTION MANAGEMENT	60
			PG	CHEMICAL PROCESSING IN TEXTILES	10
			PG	TEXTILE TECHNOLOGY	10
111	GOVT. COLLEGE OF ENGINEERING	4, CANTONMENT ROAD, P.O.- BERHAMPORE, DIST-	UG	COMPUTER SCIENCE AND ENGINEERING	44
			UG	ELECTRICAL ENGINEERING	30
			UG	MECHANICAL ENGINEERING	30

	AND TEXTILE TECHNOLOGY, BERHAMPORE	MURSHIDABAD, WEST BENGAL 742101 Tel: (03482) 250142 Fax: (03482) 250809 E-mail: cttbcese@sancharnet.in	UG PG	TEXTILE TECHNOLOGY TEXTILE ENGINEERING	60 18
112	GOVERNMENT COLLEGE OF ENGINEERING AND LEATHER TECHNOLOGY	BLOCK LB, SEC III, SALT LAKE, KOLKATA – 700098, NORTH 24 PARGANAS, WEST BENGAL Telefax: (033) 2335-6977 Fax: (033) 2200-2444 E-mail: clt@vsnl.net	UG UG UG UG PG	FOOTWEAR TECHNOLOGY COMPUTER SCIENCE & ENGINEERING INFORMATION TECHNOLOGY LEATHER TECHNOLOGY LEATHER TECHNOLOGY	10 60 40 30 25
113	GOVERNMENT COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY	73, ABINASH CHANDRA BANNERJEE LANE, KOLKATA – 700010, WEST BENGAL Telefax: (033) 2370-1264 Email: gcect@rediffmail.com	UG UG UG PG PG	CERAMIC ENGINEERING AND TECHNOLOGY COMPUTER SCIENCE & ENGINEERING INFORMATION TECHNOLOGY INFORMATION TECHNOLOGY CERAMIC ENGINEERING AND TECHNOLOGY	40 40 40 18 18
115	B.P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY	137, V.I.P. ROAD KOLKATA – 700 052. Tel: (033) 2573-9607/9608/9609/9610 Fax: (033) 2573-9401 E-mail: info@bppimt.ac.in	UG UG UG UG PG	COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG INFORMATION TECHNOLOGY MASTERS IN COMPUTER APPLICATIONS	120 60 120 60 40
116	MCKV INSTITUTE OF ENGINEERING	243, G.T. ROAD (NORTH), LILUAH, HOWRAH, WEST BENGAL 711204 Tel: (033) 2654-9315/9317 Fax: (033) 2654-9318 E-mail: mckvie@vsnl.net	UG UG UG UG UG UG PG PG	AUTOMOBILE ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG INFORMATION TECHNOLOGY MECHANICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG MASTERS IN COMPUTER APPLICATIONS	60 60 60 60 60 60 18 30
117	RCC INSTITUTE OF INFORMATION TECHNOLOGY	CANAL SOUTH ROAD, BELIAGHATA, KOLKATA – 700 015 Tel: (033) 2216-1463/1400 Telefax: 2323-3356/3357 E-mail: campus@rciit.in	UG UG UG UG UG PG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG INFORMATION TECHNOLOGY COMPUTER SCIENCE & ENGINEERING	60 120 60 120 120 18

			PG	INFORMATION TECHNOLOGY	18
			PG	TELECOMMUNICATION ENGINEERING	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
118	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY	P.O.-SURI, DIST. – BIRBHUM: PIN CODE – 731101 Tel: (03462) 255748/749, 256839 Fax: (03462) 258488 E-mail: ksh_dirbiet@sancharnet.in	UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	MECHANICAL ENGINEERING	120
			PG	MANUFACTURING TECHNOLOGY	18
			PG	HEAT POWER ENGINEERING	18
119	SILIGURI INSTITUTE OF TECHNOLOGY	HILL CART ROAD, SUKNA, SILIGURI, DARJEELING, WEST BENGAL, 734009 Tel: (0353) 2571074/076/093, 2778004 Fax: (0353) 2778003 E-mail: sit99@rediffmail.com	UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATION ENGINEERING	90
			UG	INFORMATION TECHNOLOGY	60
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
120	DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR	JEMUA ROAD, FULJHORE, DURGAPUR, 713206 Tel: (0343) 2501353/4106 Fax: (0343) 2503424, 2504059 Email: dgp_bcrec@sancharnet.in	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	120
			PG	COMPUTER SYSTEMS AND TECHNOLOGY	18
			PG	MECHANICAL ENGINEERING	18
			PG	MODERN COMMUNICATION ENGINEERING	18
			PG	POWER SYSTEMS ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
121	BENGAL INSTITUTE OF TECHNOLOGY	TECH TOWN, DHAPA MANPUR ON BASANTI HIGHWAY, PO-HADIA, KOLKATA-700150 Tel: (033) 2345-8001/8004 Fax: (033) 2345-8005 E-mail: info@bitcollege.org	UG	BIOTECHNOLOGY	30
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60

122	ST. THOMAS' COLLEGE OF ENGINEERING & TECHNOLOGY	4, DIAMOND HARBOUR ROAD, KOLKATA, WEST BENGAL, PIN -700023 Tel: (033) 2448-1081/82 Fax: (033) 2448-2914 E-mail: stcet@stcet.ac.in	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	INFORMATION TECHNOLOGY	60
123	JIS COLLEGE OF ENGINEERING	BLOCK-A, PHASE – III, KALYANI, NADIA, WEST BENGAL, 741235 Tel: (033) 2582-2137/2856, 2582-8640 Fax: (033) 2580-8560 E-mail: tmp@jisgroup.org	UG	BIOMEDICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	120
			PG	MECHANICAL ENGINEERING	18
			PG	ELECTRICAL DEVICES AND POWER SYSTEMS	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MOBILE COMMUNICATION AND NETWORK TECHNOLOGY	18
124	GUPTA COLLEGE OF TECHNOLOGICAL SCIENCES	ASHRAM MORE G.T. ROAD ASANSOL-713301 Tel: (0341) 2213120/2204423 Telefax: (0341) 2214604 E-mail: trinitytrustasansol@rediffmail.com	UG	PHARMACY	100
			PG	PHARMACOLOGY	15
			PG	PHARMACEUTICS	15
125	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY	SAHID SUKUMAR BANERJEE SARANI BIDHAN NAGAR, DURGAPUR PIN- 713 212 DIST: BURDWAN WEST BENGAL Tel: (0343) 2533190/187, 2536756, 2532606 Telefax: (0343) 2533186 E-mail: skset_dgp@rediffmail.com	UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	120
			UG	MECHANICAL ENGINEERING	60
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
126	HERITAGE INSTITUTE OF TECHNOLOGY	994, MADURDAHA, CHOWBAGA ROAD, ANANDAPUR P.O. EAST KOLKATA TOWNSHIP, KOLKATA SOUTH 24	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	BIOTECHNOLOGY	60
			UG	CHEMICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	180

		PARGANAS, WEST BENGAL 700107 Tel: (033) 2443-0454/56/57/1255 - 58 Fax: (033) 2443-0455/1259 E-mail: admin@heritageit.edu	UG	MECHANICAL ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	180
			UG	ELECTRICAL ENGINEERING	60
			PG	VLSI	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	BIOTECHNOLOGY	18
			PG	COMPUTER SCIENCE AND ENGINEERING	36
			PG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	18
			PG	RENEWABLE ENERGY	18
127	NARULA INSTITUTE OF TECHNOLOGY	81, NILGUNJ ROAD, AGARPARA, KOLKATA-700109 Tel: (033) 2563-8888 Telefax: (033) 2583-7029/7777 E-mail: info@nit.ac.in	UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	60
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	POWER SYSTEMS	18
129	BHARTIYA VIDYA BHAVAN INSTITUTE OF MANAGEMENT SCIENCE	BLOCK-FA, SECTOR-III, SALT LAKE CITY Tel: (033) 2335-1250 Telefax: (033) 2335-8754	PG	MASTERS IN BUSINESS ADMINISTRATION	120
130	TECHNO INDIA	EM-4/1, SECTOR-V, SALT LAKE, KOLKATA-700091 Tel: (033) 2357-5683/5685 Fax: (033) 2357-5686 E-mail: info@ticollege.org	UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE & ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	FOOD TECHNOLOGY	60
			UG	INFORMATION TECHNOLOGY	120
			UG	MECHANICAL ENGINEERING	120
			UG	ELECTRICAL ENGINEERING (2 ND SHIFT)	60
			PG	FOOD TECHNOLOGY	18
			PG	VLSI AND MICROELECTRONICS	18
			PG	CIVIL ENGINEERING	18

			PG	ELECTRICAL ENGINEERING (2 ND SHIFT)	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	BUSINESS ADMINISTRATION	60
131	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY	VILLAGE BASANTAPUR PO BASANTAPUR PS DUMKAL DIST MURSHIDABAD PIN 742406 Tel: (03481) 231201/230033 Fax: (03481) 231188 E-mail: dietnet@hotmail.com	UG	MECHANICAL ENGINEERING	30
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	30
			UG	ELECTRICAL ENGINEERING	30
			UG	COMPUTER SCIENCE & ENGINEERING	30
			UG	CIVIL ENGINEERING	30
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	09
132	BHOLANANDA NATIONAL ACADEMY	VILLAGE: PANPUR, P.O. NARAYANPUR, KANKINARA, DISTRICT: 24 PARGANAS (N), WEST BENGAL, PIN – 743126.	UG	BBA	60
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	30
133	GEORGE COLLEGE	136 B. B. GANGULY STREET, KOLKATA – 700012 Tel: (033) 2217-6142 Telefax: (033) 2217-6143 E-mail: enquiry@georgecollege.org	UG	BBA	90
			UG	BCA	90
			UG	BBA (HOSPITAL MANAGEMENT)	90
			UG	BTTM	60
			UG	B.SC IN MEDIA SCIENCE	60
			UG	BBA (SPORTS MANAGEMENT)	60
			UG	BEAUTY AND AESTHETICS (B.VOC)	50
			UG	MEDICAL LAB TECHNOLOGY (B.VOC)	50
			UG	AUTOMOBILE SERVICING TECHNOLOGY (B.VOC)	50
			UG	HARDWARE NETWORKING (B.VOC)	50
			UG	BANKING FINANCE SERVICE AND INSURANCE (B.VOC)	50
			UG	ELECTRONICS MANUFACTURING SERVICES (B.VOC)	50
			UG	INTERIOR DESIGN (B.VOC)	50
134	GITARAM INSTITUTE OF MANAGEMENT	BERHAMPORE, MURSHIDABAD Telefax: (03482) 226440, 9002805538/9475681137 E-mail: gitaram.institute2000@gmail.com	UG	BBA	40
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	60
136	ARMY INSTITUTE OF MANAGEMENT	JUDGES COURT ROAD OPPOSITE ALIPORE TELEPHONE EXCHANGE ALIPORE	PG	BUSINESS ADMINISTRATION	120

		KOLKATA-700027 Tel: (033) 2479-4494, 2439-8335/37/38 Telefax: (033) 2479-4929 E-mail: aim_kol@rediffmail.com			
137	INSTITUTE OF BUSINESS MANAGEMENT & RESEARCH	318A, PRANTIK PALLY, RAJDANGA, KOLKATA – 700107.	PG	MASTERS IN BUSINESS ADMINISTRATION (FULL TIME) 1 ST SHIFT	30
139	VIDYASAGAR COLLEGE OF OPTOMETRY & VISION SCIENCE	220, HOSSENPUR, (E.M. BY PASS NEAR KALIKAPUR BRIDGE), KOL - 700107 Tel: (033) 2441-4412 Telefax: (033) 2441-2542 E-mail: vcovs_inf@hotmail.com	UG PG	B.OPTOM (BACHELOR OF OPTOMETRY) MASTER OF OPTOMETRY (MOPTOM)	60 20
142	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY	TECHNO COMPLEX, MADURDAHA, BESIDE NRI COMPLEX, UCHHEPOTA, KOLKATA-700150 Tel: (033) 2443-1031 Fax: (033) 2443-1032 E-mail: msit_engg@hotmail.com	UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	GEOTECHNICAL ENGINEERING	18
			PG	ELECTRONICS & COMMUNICATION ENGG	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
143	GURUNANAK INSTITUTE OF TECHNOLOGY	157/F, NILGUNJ ROAD, PANIHATI, SODEPUR, KOLKATA-700114 Tel: (033) 2563-7929 Telefax: (033) 2563-7957 E-mail: info@jisgroup.ac.in	UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	ELECTRICAL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	FOOD TECHNOLOGY	60
			UG	INFORMATION TECHNOLOGY	60
			PG	MOBILE COMMUNICATION AND NETWORK TECHNOLOGY	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
144	NEOTIA INSTITUTE OF	DIAMOND HARBOUR ROAD P.O.: AMIRA	UG	COMPUTER SCIENCE AND ENGINEERING	60

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	INSTITUTE OF MANAGEMENT STUDIES	LANE, KOLKATA – 700 006 Tel: (033) 2533-8503, 3259-0283 Fax: (033) 2543-7168 Email: director@nopanyinstituteofmanagementstudies.com	UG UG	BBA BBA (HOSPITAL MANAGEMENT)	60 60
152	TECHNO INDIA (HOOGHLY CAMPUS)	DHARAMPUR SANTINIKATAN, HOOGHLY-712 101 Tel: (033) 2680-2389/4753 E-mail: info@ticollege-hooghly.org	UG UG UG PG	B.OPTOM (BACHELOR OF OPTOMETRY) BBA BCA M.SC IN INFORMATION SCIENCE	20 120 120 60
153	SYAMAPRASAD INST. OF TECH. & MANAGEMENT	7 RAJA RAMMOHON ROY ROAD, TOLLYGUNGE SIRITI MORE, KOLKATA 700041 Tel: (033) 2455-2289 Telefax: (033) 2454-2289, 2485-5905 Email: spinst@dataone.in	UG	BCA	60
154	DINABANDHU ANDREWS INSTITUTE OF TECHNOLOGY & MANAGEMENT	1/406A, BLOCK-S, BAISHNABGHATA PATULI TOWNSHIP, KOLKATA – 700 094. Tel: (033) 2430-4876/4878 Fax: (033) 2430-1762 E-mail: daitm@vsnl.net.in	UG UG UG PG PG	BCA BBA BBA (HOSPITAL MANAGEMENT) M.SC IN COMPUTER SCIENCE M.SC IN APPLIED MATHEMATICS	90 90 90 30 15
155	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT	G.T. ROAD, RAJBANDH, DURGAPUR-713212, DIST. BURDWAN WEST BENGAL Tel: (0343) 2520712/713 Fax: (0343) 2520881 E-mail: diatm@rahul.ac.in	UG	MECHANICAL ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS & COMMUNICATION ENGG	90
			UG	ELECTRICAL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	CHEMICAL ENGINEERING	60
			PG	ELECTRONICS & COMMUNICATION ENGG	18
156	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY [B.TECH DIVISION]	BENGAL PAILAN PARK, SECTOR – 1 PHASE - I JOKA, (OFF DIAMOND HARBOUR ROAD), KOLKATA-700 104 Tel: (033) 24978006/007, 2453-5605 Fax: (033) 2453-5604 E-mail: pcmt@pcmt-india.net	UG	ELECTRONICS & COMMUNICATIONS ENGINEERING	60
			UG	ELECTRICAL & ELECTRONICS ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL ENGINEERING	60

158	MALLABHUM INSTITUTE OF TECHNOLOGY	CAMPUS: BRAJA- RADHANAGAR P.O.- GOSAINPUR, P.S. BISHNUPUR. DIST.- BANKURA, PIN-722122 Tel: (03244) 255207/208 Telefax: (03244) 255206 E-mail: mallaengedu@vsnl.net	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	CIVIL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	120
159	CALCUTTA INSTITUTE OF PHARMACEUTI CAL TECHNOLOGY & ALLIED HEALTH SCIENCES	BANITABLA, ULUBERIA, HOWRAH- 711316 Tel: (033) 2661-2094/96/97 Fax: (033) 2661-3733 E-mail: cipt@rediffmail.com	UG	PHARMACY	60
			PG	PHARMACOLOGY	10
			PG	PHARMACEUTICS	10
			PG	PHARMACEUTICAL BIOTECHNOLOGY	10
160	NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH, KOLKATA	BLOCK-FC, SECTOR- I177 II, SALT LAKE Tel: (033) 2337- 0937/0479/4125 Fax: (033) 2337-6331/6290 E-mail: director_ nitttr_kol@yahoo.com	PG	MANUFACTURING TECHNOLOGY	28
			PG	MECHATRONICS	28
			PG	MULTIMEDIA AND SOFTWARE ENGINEERING	28
			PG	STRUCTURAL ENGINEERING	09
161	PARAMEDICAL COLLEGE, DURGAPUR	HELLEN KELLER SARANI, BIDHANNAGAR, DGP- 713212 Tel: (0343) 2532154 E-mail: ipmtst@dataone.in	UG	B.OPTOM (BACHELOR OF OPTOMETRY) BBA (HOSPITAL MANAGEMENT)	30
			UG		40
163	BENGAL INSTITUTE OF TECHNOLOGY AND MANAGEMENT	SRINIKETAN BYPASS P.O.-DORANDA DIST- BIRBHUM WEST BENGAL PIN-731236. Tel: (03463) 271353/4 Telefax: (03463) 271371 E-mail: bitm@vsnl.net	UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	180
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	ELECTRICAL ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
164	GEORGE COLLEGE OF MANAGEMENT AND SCIENCE	BUDGE BUDGE TRUNK ROAD CHALKMIR, MAHESHTALA, KOLKATA – 700 141 Tel: (033) 2401-2289	UG	BBA	90
			UG	BCA	60
			UG	B.OPTOM (BACHELOR OF	40
			UG	OPTOMETRY)	60
			UG	BBA (HOSPITAL MANAGEMENT)	60

		Telefax: (033) 24018687 E-mail: enquiry@georgecollege.org	UG UG UG	BBA (INSURANCE & RISK MANAGEMENT) BBA (SUPPLY CHAIN MANAGEMENT) BTTM B. SC IN MEDIA SCIENCE	60 60 60
165	CALCUTTA INSTITUTE OF ENGINEERING AND MANAGEMENT	PRASANTA SUR CAMPUS, 24/1A CHANDI GHOSH ROAD, KOLKATA, SOUTH 24 PARGANAS, WEST BENGAL, 700040 Tel: (033) 2421-8998/5747 Telefax: (033) 2421-9951 E-mail: admin@ciemcal.orgc	UG UG UG UG UG UG PG	ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG INFORMATION TECHNOLOGY INSTRUMENTATION AND CONTROL ENGINEERING COMPUTER SCIENCE & ENGINEERING CIVIL ENGINEERING MASTERS IN BUSINESS ADMINISTRATION	120 60 60 60 60 60 60
168	SAROJ MOHAN INSTITUTE OF TECHNOLOGY	BADHAGACHI, GUPTIPARA HOOGHLY PIN-712512 Tel: (03213) 262499/856 Telefax: (03213) 262201 E-mail: office@smitguptipara.com	UG UG UG UG UG UG UG PG	MECHANICAL ENGINEERING INFORMATION TECHNOLOGY APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING ELECTRICAL ENGINEERING COMPUTER SCIENCE AND ENGINEERING CIVIL ENGINEERING MASTERS IN BUSINESS ADMINISTRATION	60 30 30 90 60 90 60 30
169	ACADEMY OF TECHNOLOGY	G.T. ROAD, ADISAPTAGRAM P.O: AEDCONAGAR DIST- HOOGHLY WEST BENGAL 712121 Telefax: (033) 2684-2888 E-mail: academy@aot.edu.in Contact No. 9830161441	UG UG UG UG UG UG UG PG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING INFORMATION TECHNOLOGY MECHANICAL ENGINEERING MASTERS IN COMPUTER APPLICATIONS	60 120 120 120 60 120 60
170	IMPS COLLEGE OF ENGINEERING & TECHNOLOGY	VILL- NITYANANDAPUR P.O.- CHANDIPUR(KAZIGRA M) DIST-MALDA PIN- 732103 WEST BENGAL Tel: (03512) 271555/251272 Telefax: (03512) 278115 E-mail: impset@sancharnet.in	UG UG UG UG	CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRONICS & COMMUNICATION ENGG ELECTRICAL ENGINEERING	30 30 30 30
171	ARYABHATTA INSTITUTE OF	VILL.: PANAGARH GRAM; P.O.:	UG UG	CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING	60 60

	ENGINEERING & MANAGEMENT DURGAPUR	PANAGARH BAZAR; DIS -BURDWAN; STATE : WEST BENGAL, 713148 Tel: (0343) 2526415/16 Telefax: (0343) 2526417 E-mail: aiem@sancharnet.in	UG	ELECTRICAL AND ELECTRONICS ENGINEERING	30
			UG	ELECTRICAL ENGINEERING	90
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	30
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
173	KINGSTON SCHOOL OF MANAGEMENT AND SCIENCE	BERUNAN PUKURIA, P.O. MALLIKEPUR, BARASAT Tel: (033) 2538-9508, 2542-9800 Telefax: (033) 2538-9509 E-mail: kingston_educational_institute@yahoo.com	UG	BBA	60
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	120
174	NETAJI SUBHAS CHANDRA BOSE INSTITUTE OF PHARMACY	TATLA, ROY PARA P.O. CHAKDAHA DIST. NADIA WEST BENGAL - 741222 Tel: (03473) 285448 Fax: (03473) 240198 E-mail: nscbip2004@yahoo.co.in	UG	PHARMACY	100
			PG	PHARMACEUTICAL CHEMISTRY	06
			PG	PHARMACEUTICS	18
			PG	PHARMACOLOGY	18
175	HALDIA INSTITUTE OF MANAGEMENT	P.O. HATIBERIA, PIN – 721 657 Tel: (03224) 255843 Telefax: (03224) 255275 E-mail: icare_haldia@rediffmail.com	UG	BBA (HOSPITAL MANAGEMENT)	60
			UG	BMS (PHARMACEUTICAL	60
			PG	MANAGEMENT)	36
			UG	MASTER OF MANAGEMENT STUDIES (PHARMACEUTICAL MANAGEMENT)	60
			UG	BBA	30
			UG	B.OPTOM (BACHELOR OF OPTOMETRY)	60
			PG	B.SC IN GAMING & MOBILE APPLICATION DEVELOPMENT	18
			PG	M.SC IN HUMAN COMPUTING & ARTIFICIAL INTELLIGENCE MHA (MASTER OF HOSPITAL ADMINISTRATION)	36
176	HOOGHLY ENGINEERING & TECHNOLOGY COLLEGE	VIVEKANANDA ROAD, PIPULPATI, P.S.: CHINSURAH, P.O. & DIST: HOOGHLY, PIN: 712103, WEST BENGAL Tel: (033) 2681-1392/0505 Telefax: (033) 2680-3026 E-mail: mail@hetc.ac.in	UG	MECHANICAL ENGINEERING	60
			UG	ELECTRONICS & TELE-COMMUNICATION ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL ENGINEERING	60
177			UG	CHEMICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	60

	CALCUTTA INSTITUTE OF TECHNOLOGY	BANITABLA, ULUBERIA, HOWRAH- 711316 Telefax: (033) 2661-0499 E-mail: cit_ulb@yahoo.co.in	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	MECHANICAL ENGINEERING	60
			PG	CHEMICAL ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
178	INTERNATION AL INSTITUTE OF MANAGEMENT SCIENCES	NH-6, BOMBAY ROAD, (OPP.: BISK PHARM), PALARA, PO- MAHISHREKHA, ULUBE RIA, HOWRAH, PIN- 711303, WEST BENGAL Tel: (033) 2337-2592/ 9163302203 Fax: (033) 2334-9183 E-mail: cal_iims@sify.com	PG	MASTERS IN BUSINESS ADMINISTRATION	60
179	HALDIA INST. OF MARITIME STUDIES & RESEARCH	MARINE CAMPUS, ICARE COMPLEX, HATIBERIA, HALDIA, WEST BENGAL – 721 657 Tel: (03224) 267501/502 Fax: (03224) 252800, 255275 E-mail: iimsar@sancharnet.in	UG	B.SC IN NAUTICAL SCIENCE	80
180	NIPS SCHOOL OF HOTEL MANAGEMENT	297, MAHISBATHAN, SECTOR V, SALT LAKE CITY, KOLKATA – 700 102 Tel: (033) 2334-3079, 2367-5127/28 Fax: (033) 2367-5177 E-mail: nipsca@vsnl.com	UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	120
182	INSTITUTE OF SCIENCE AND TECHNOLOGY	DHURABILA, DHAMKURIA, CHANDRAKONA TOWN, PASCHIM MEDNIPUR, WEST BENGAL, 721201. Tel: (03225) 267288 Telefax: (03225) 266644	UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRICAL & ELECTRONICS ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60

		E-mail: pradip_dgp6@indiatimes.com	UG	MECHANICAL ENGINEERING	60
			PG	CIVIL ENGINEERING	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	ELECTRONICS & COMMUNICATION ENGG	18
			PG	MECHANICAL ENGINEERING DESIGN	18
			PG	ELECTRICAL MACHINES AND DRIVES	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
183	EASTERN INSTITUTE FOR INTEGRATED LEARNING IN MANAGEMENT	6 WATERLOO STREET, 2 ND FLOOR, KOLKATA – 700 069 Tel: (033) 2210-0911 Fax: (033) 2210-0909 E-mail: eiilm@vsnl.com	UG	BBA	30
185	GURUNANAK INSTITUTE OF HOTEL MANAGEMENT	157/F NILGUNJ ROAD, KOLKATA, NORTH 24 PARGANAS, WEST BENGAL, 700114 Telefax: + 91 33 2523-1246	UG	HOTEL MANAGEMENT AND CATERING TECHNOLOGY	60
186	GURU NANAK INSTITUTE OF PHARMACEUTICAL SCIENCE & TECHNOLOGY	157/F, NILGUNJ ROAD, KOLKATA - 700114 Ph. 91 33 2523-1247 Email: info@gnipst.ac.in	UG	PHARMACY	100
			UG	MEDICAL IMAGING TECHNOLOGY (B.VOC)	25
			PG	PHARMACEUTICAL CHEMISTRY	18
			PG	PHARMACOLOGY	18
			PG	PHARMACEUTICS	18
187	TECHNO INTERNATIONAL NEW TOWN (FORMERLY TECHNO INDIA COLLEGE OF TECHNOLOGY)	MEGA CITY, NEW TOWN, KOLKATA, WEST BENGAL, 700156 Tel: (033) 27062050 Telefax: (033) 27062060 E-mail: info@ticollege.org	UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	90
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	120
			PG	ELECTRICAL ENGINEERING	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
188	TECHNO INDIA-HOOGHLY	DHARAMPUR, SHANTINIKETAN ON G T ROAD, CHINSURAH, HOOGHLY Tel: (033) 2680-6565 Telefax: (033) 2680-2389 E-mail: info@ticollege-hooghly.org	PG	MASTERS IN COMPUTER APPLICATIONS	60
189			UG	PHARMACY	100
			PG	PHARMACEUTICS	18

	DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES	DR. MEGHNAD SAHA SARANI, BIDHANNAGAR, DURGAPUR, WEST BENGAL, PIN-713206 Tel: (0343) 2532678, 6521683 Telefax: (0343) 2532679 E-mail: bcrep_dgp@yahoo.co.in	PG	PHARMAC\OLOGY	18
192	GLOBAL INSTITUTE OF SCIENCE & TECHNOLOGY	HALDIA, PURBA MEDINIPUR Tel: (03224) 263587 Telefax: (03224) 263091 E-mail: gist@icare- haldia.org	UG	BCA	60
193	BENGAL SCHOOL OF TECHNOLOGY	SUGANDHA, DELHI ROAD NEAR CHINSURAH RLY. STATION, HOOGHLY, PIN-712102 Tel: (033) 2686-6064/2027 Fax: (033) 2686-2482 E-mail: bstpharmacy@rediffmail.c om	UG	PHARMACY	100
			PG	PHARMACOLOGY	18
			PG	PHARMACEUTICS	18
194	INSTITUTE OF MANAGEMENT STUDY	93 MUKUNDAPUR MAIN ROAD, KOLKATA – 700 099 Tel: (033) 2426-4168 Fax: (033) 2466-4579 E-mail: imscal@vsnl.net	UG	<u>1ST SHIFT</u> BBA	60
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	60
			UG	BTTM	30
			PG	MHA (MASTER OF HOSPITAL ADMINISTRATION)	60
				<u>2ND SHIFT</u>	
			PG	M.SC IN COMPUTER SCIENCE	30
			PG	MASTER OF PUBLIC HEALTH	60
			PG	MASTER OF TOURISM & TRAVEL MANAGEMENT (MTTM)	10
			PG	M.SC (DATA SCIENCE AND ANALYTICS)	30
			PG		30
			UG	M.SC IN MEDIA SCIENCE B.SC IN MEDIA SCIENCE	30
195	THE CALCUTTA ANGLO GUJARATI COLLEGE	29 POLLOCK STREET, KOLKATA – 700 001 Tel: (033) 2235-1585 Fax: (033) 2211-4247 E-mail: cagcollege@rediffmail.co m	UG	BBA	60
			UG	BCA	60
198	ADVANCED	Z.P. AVENUE,	UG	B.SC IN HOSPITALITY AND HOTEL	60

	INFORMATION & MANAGEMENT STUDIES	SAGARBHANGA, ZONAL CENTRE, DURGAPUR, DIST: BURDWAN, PIN – 713211, W.B. Ph. 0343-25591 26/27 E-mail: response@aimssyndicate.org	UG UG UG UG	ADMINISTRATION BTMM BBA BCA BBA (HOSPITAL MANAGEMENT)	60 30 30 30
199	DOOARS ACADEMY OF TECHNOLOGY AND MANAGEMENT	NEW ALIPURDUAR STATION ROAD, ALIPURDUAR, PIN – 736121 Tel: (03564) 257955	UG UG PG PG	BBA BCA M.SC IN COMPUTER SCIENCE M.SC IN APPLIED MATHEMATICS	60 60 30 30
200	GOLDEN REGENCY INSTITUTE OF HOSPITALITY MANAGEMENT	DEBHOG, CITY CENTRE, HALDIA – 721 657, MIDNAPORE (EAST) Tel: (03224) 252020/252688, 9831780919 Fax: (03224) 252622cera E-mail: golden_regency@yahoo.com	UG UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA	60 60
201	BCDA COLLEGE OF PHARMACY & TECHNOLOGY	78 JESSORE ROAD(S), HRIDAYPUR, BARASAT 24 PGS(N), KOLKATA-700127 Tel: (033) 2584-2665 Fax: (033) 2584-2433 E-mail: principal_bcda@yahoo.co.in	UG	PHARMACEUTICAL TECHNOLOGY	60
202	KOTIBARSHA INSTITUTE OF TECHNOLOGY AND MANAGEMENT	KITM CAMPUS, VILL – PANJARIPARA, P.O. SUDARSHAN NAGAR, BUNIADPUR, DIST - DAKSHIN DINAJPUR, WEST BENGAL, PIN – 733 121 Tel: 9474440213 Telefax: (03524) 259055 E-mail: helpdesk@kitmdd.com	UG UG UG UG	BBA BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA (HOSPITAL MANAGEMENT)	60 60 45 30
206	SEACOM ENGINEERING COLLEGE	JALADHULAGORI SANKRAIL PO: ANDUL	UG UG UG	CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING	60 60 60

		MOURI HOWRAH-711302 Tel: (033) 2679-0481/82/83 Fax: (033) 2679-0480 E-mail: seacomengineering@rediffmail.com	UG	ELECTRONICS & COMMUNICATION ENGG	90
			UG	INFORMATION TECHNOLOGY	60
			UG	MARINE ENGINEERING	30
			UG	MECHANICAL ENGINEERING	90
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	30
209	DREAM INSTITUTE OF TECHNOLOGY	P.O. NAHAZARI, P.S.: BISHNUPUR, 24 PARGANAS (SOUTH), KOLKATA 700104 Tel: (033) 3093-6088 Fax: (033) 2398-0244 E-mail: dream_institute_of_technology@hotmail.com	UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	MECHANICAL ENGINEERING	60
			PG	POWER ELECTRONICS AND DRIVES	18
			PG	MICROELECTRONICS & VLSI DESIGN	18
210	INSTITUTE OF GENETIC ENGINEERING	30 THAKURHAT ROAD, BADU, KOLKATA – 700 128 Tel: (033) 2526-0052/53 Telefax: (033) 2526-0060 E-mail: igebadu04@yahoo.com.au	PG	M.SC IN GENETICS	20
			PG	M.SC IN BIOTECHNOLOGY	30
			UG	B.SC. IN BIOTECHNOLOGY	60
			UG	B.SC. IN MICROBIOLOGY	30
			UG	B.SC. IN GENETICS	30
			UG	B.SC. IN MOLECULAR BIOLOGY	30
			UG	BCA	30
			PG	M.SC IN MICROBIOLOGY	20
211	POST GRADUATE INSTITUTE OF HOSPITAL ADMINISTRATION	360 PANCHASAYAR, KOLKATA – 700 094 Tel: (033) 2462-0071/72/73/2394 Fax: (033) 2462-0766	UG	BBA (HOSPITAL MANAGEMENT)	30
			PG	MHA (MASTER OF HOSPITAL ADMINISTRATION)	40
212	TAMRALIPTA INSTITUTE OF MANAGEMENT & TECHNOLOGY	PADUMBASAN, WARD NO. 7, TAMLUK, PURBA MEDINIPUR – 721 636 Tel: (03228) 267937, 9232523324 E-mail: tamraliptait@yahoo.co.in	UG	BBA	60
			UG	BCA	60
			UG	B.SC. IN BIOTECHNOLOGY	20
			UG	B.SC. IN MICROBIOLOGY	20
			UG	BBA (HOSPITAL MANAGEMENT)	40
213	THE HERITAGE ACADEMY	CHOWBAGA ROAD), P.O. EAST KOLKATA TOWNSHIP, PIN - 700 107 Ph. +91 33 2443-0454/56/57, 2443-1256-58 Fax: +91 33 2443-1259/0455 Email- admin@theheritageacademy.in	UG	BBA	120
			UG	BCA	120
			UG	B.SC IN MEDIA SCIENCE	90
			PG	M.SC IN MEDIA SCIENCE	30

214	SEACOM MANAGEMENT COLLEGE	JALADHULAGORI, SANKRAIL, HOWRAH – 711 302 Tel: (033) 6513-7392 Fax: (033) 2430-9308 E-mail: seacommanagement@rediffmail.com	UG UG UG UG	BBA BCA BTM BBA (HOSPITAL MANAGEMENT)	90 90 60 60
215	NIMAS	H.L. NO. 1045/1/A, BARRACKPORE BARASAT ROAD, KOL – 700 125 Tel: (033) 2564-8882 Email: sudip_b1@rediffmail.com	UG UG UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA BCA	90 60 60
216	ABS ACADEMY OF SCIENCE, TECHNOLOGY & MANAGEMENT	J.P.AVENUE, SAGARBHANGA,DURG APUR: 713211 DISTRICT : BURDWAN WEST BENGAL Tel: (0343) 2550697/98 Fax: (0343) 2550699 E-mail: info@absacademy.com	PG	MASTERS IN BUSINESS ADMINISTRATION	60
220	PRAJNANANA NDA INSTITUTE OF TECHNOLOGY & MANAGEMENT	94/2 PARK STREET, KOLKATA – 700 017 Tel: (033) 3250-6829 Fax: (033) 2265-9355	UG UG	BBA BCA	30 60
221	GURUKUL MANAGEMENT STUDIES	MOUZA-NARAYANPUR, PS. – JAGADDAL, DIST. – NORTH 24 PARGANAS, WARD NO. – 34, BHATPARA MUNICIPALITY, W.B. – 743126. E-mail: admission@gurukulstudies.com	UG UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BCA	20 30
226	TECHNO INDIA – KOLKATA	EM-4, SALT LAKE CITY, KOLKATA – 700 091	UG UG UG	BBA BCA BBA (HOSPITAL MANAGEMENT)	120 120 60
229	DURGAPUR INSTITUTE OF SCIENCE, TECHNOLOGY AND MANAGEMENT	NEHRU AVENUE, DURGAPUR – 14 Tel: (0343) 2601868, 3290943	UG UG UG	BBA BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	60 30 30
230			UG	MECHANICAL ENGINEERING	120

	CAMELLIA INSTITUTE OF TECHNOLOGY	DIGBERIA, BADU ROAD, MADHYAMGRAM, KOLKATA-700129 Tel: (033) 6455- 1660/1145/1146 Fax: (033) 2237-7540 E-mail: camelliagroup.vsnl.net	UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL ENGINEERING	60
234	NSHM COLLEGE OF MANAGEMENT & TECHNOLOGY, KOLKATA	124 (60) B. L. SAHA ROAD, KOLKATA – 700 053 Tel: (033) 2403-2301 Fax: (033) 2474-5146 E-mail: info@nshm.com	UG	<u>1ST SHIFT</u>	
			UG	BBA	120
			UG	BBA (SUPPLY CHAIN MANAGEMENT)	30
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	60
			UG	B.OPTOM (BACHELOR OF	60
			UG	OPTOMETRY)	60
				B.SC IN HOSPITALITY AND HOTEL	
			UG	ADMINISTRATION	120
			UG	B.SC IN MEDIA SCIENCE	60
			UG	B.SC IN FASHION DESIGN & MANAGEMENT	60
			UG	B.SC IN MULTIMEDIA, ANIMATION &	60
			PG	GRAPHICS	60
			PG	BBA (GLOBAL BUSINESS)	30
			PG	M.SC IN MEDIA SCIENCE	60
				M.SC IN COMPUTER SCIENCE	
				MHA (MASTER OF HOSPITAL	
			UG	ADMINISTRATION)	60
				<u>2ND SHIFT</u>	
			UG	B.SC (BEHAVIOURAL SCIENCE &	30
			UG	APPLIED PSYCHOLOGY)	30
			UG	B.SC (CULINARY SCIENCE)	60
			UG	BTTM	60
				BBA (SPORTS MANAGEMENT)	
			UG	B.SC IN GAMING & MOBILE	30
			UG	APPLICATION DEVELOPMENT	60
				B.SC (INTERIOR DESIGNING)	
			UG	B.SC IN HOSPITALITY AND HOTEL	60
			UG	ADMINISTRATION	60
			PG	B.OPTOM (BACHELOR OF OPTOMETRY)	30
			PG	BBA (HOSPITAL MANAGEMENT)	30
			PG	M.SC IN HUMAN COMPUTING &	30
			PG	ARTIFICIAL INTELLIGENCE	30
			PG	MASTER OF OPTOMETRY (MOPTOM)	30
			PG	MASTER OF PUBLIC HEALTH	30
			PG	M.SC (DIETETICS AND NUTRITION)	60
			PG	M.SC (DIGITAL FILMS)	30
				M.SC (FASHION MANAGEMENT)	
			PG	M.SC (VISUAL COMMUNICATION)	60

			PG PG	M.SC (INFORMATION & CYBER SECURITY) M.SC (DATA SCIENCE AND ANALYTICS) M.SC (HOSPITALITY MANAGEMENT) M.SC (CLINICAL PSYCHOLOGY)	30 30
235	SEACOM MARINE COLLEGE	JALADHULAGORI, VIA ANDUL (MOURI) SANKRAIL, HOWRAH – 711 302 Tel: (033) 2679-0482/83 Telefax: (033) 2679-1929 E-mail: seacommaritime@gmail.com	UG	B.SC IN NAUTICAL SCIENCE	60
236	GREATER KOLKATA COLLEGE OF ENGINEERING & MANAGEMENT	DUDHNAI, RAMNAGAR-II, P.S BARUIPUR, 24 PARGANAS (SOUTH) WEST BENGAL, 743387 Telefax: (033) 2430-5897 Email: gkcem.kolkata@yahoo.com	UG	COMPUTER SCIENCE & ENGINEERING	45
			UG	ELECTRICAL ENGINEERING	45
			UG	ELECTRONICS & COMMUNICATION ENGG	45
			UG	CIVIL ENGINEERING	45
			UG	MECHANICAL ENGINEERING	45
238	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY	NADIBHAG, PO: KAZIPARA, BARASAT, NORTH 24 PARGANAS, KOLKATA - 700124. Tel: (033) 2584-4536 E-mail: info@camelliagroup.in	UG	COMPUTER SCIENCE AND ENGINEERING	45
			UG	ELECTRONICS & COMMUNICATION ENGG	45
			UG	CIVIL ENGINEERING	90
			UG	INFORMATION TECHNOLOGY	45
			UG	MECHANICAL ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	90
			PG	CIVIL ENGINEERING	18
240	ABACUS INSTITUTE OF ENGINEERING AND MANAGEMENT	VILL-NUTANGRAM; P.O-MOGRA; DIST-HOOGHLY, WEST BENGAL, 712148 Tel: (03213) 202076/89 E-mail: info@abacusinstitute.com	UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE	60
			UG	CIVIL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
241	SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY	DAKSHIN GOBINDAPUR, P.S-SONARPUR, KOLKATA-700145 Ph. 033-2437-9913 Telefax: 033-2437-0013 Email: info@svist.org	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	MECHANICAL ENGINEERING	120
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG (INDUSTRY INTEGRATED)	90
			UG	CIVIL ENGINEERING	60
			UG	REFRIGERATION AND AIR CONDITIONING (B.VOC)	25

			UG	AUTOMOTIVE MANUFACTURING TECHNOLOGY (B.VOC)	25
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
242	BENGAL COLLEGE OF PHARMACEUTICAL SCIENCES & RESEARCH	BIBLABI RASHBEHARI BASU SARANI, BIDHANNAGAR, DURGAPUR PIN- 713 212 DIST: BURDWAN, WEST BENGAL Tel: (0343) 2532606, 2533189 , 8170021123 Fax: (0343) 2533186 E-mail: skset_pharm@rediffmail.com	UG	PHARMACY	100
			PG	PHARMACEUTICS	18
243	WEST BENGAL STATE COUNCIL FOR SCIENCE & TECHNOLOGY	BIKASH BHAVAN, (4 th floor), SALT LAKE, KOLKATA –7000 91	PG	POST GRADUATE DIPLOMA IN GEOINFORMATICS	20
244	TECHNO ENGINEERING COLLEGE BANIPUR (FORMERLY TECHNO INDIA – BANIPUR)	BANIPUR COLLEGE ROAD, BANIPUR, HABRA 24 PARGANAS (NORTH) WEST BENGAL-743233 Tel: (03216) 238138 E-mail: admin@iiitkolkata.com	UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	INFORMATION TECHNOLOGY	30
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	30
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	30
			UG	MECHANICAL ENGINEERING	60
246	RINPOCHE ACADEMY OF MANAGEMENT AND TECHNOLOGY	CHIRIAMORE, DASPARA, KOIKHALI, 24 PGS (N), KOLKATA – 52 Telefax: (033) 2321-4291 E-mail: rh.rohit@gmail.com	UG	BBA	40
			UG	BCA	40
250	SWAMI VIVEKANANDA INSTITUTE OF MANAGEMENT & COMPUTER SCIENCE	KARBALA, SONARPUR STATION ROAD, P.O: NARENDRAPUR, KOLKATA-700103 Tel: (033) 2428-3035 E-mail: info@svist.org	PG	MASTERS IN BUSINESS ADMINISTRATION	60
			UG	BFSI (B.VOC)	25
			UG	TRAVEL AND TOURISM (B.VOC)	25
252	KANAD INSTITUTE OF	VILLAGE+P.O.- MANKAR, DIST- BURDWAN, MANKAR,	UG	CIVIL ENGINEERING	42
			UG	COMPUTER SCIENCE & ENGINEERING	42
			UG	ELECTRICAL ENGINEERING	42

	ENGINEERING & MANAGEMENT	BARDHAMAN, WEST BENGAL 713144 Tel: (0343) 2517137/38 E-mail: kanadinstituteofengg@gmail.com	UG	MECHANICAL ENGINEERING	84
253	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS	1, KHAN ROAD, MANKUNDU STATION ROAD, P.O. MANKUNDU, DIST. HOOGHLY, WEST BENGAL, PIN-712139 Telefax: (033) 2683-1146 E-mail: skf.mankundu@gmail.com	UG	CIVIL ENGINEERING	30
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	MECHANICAL ENGINEERING	30
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			PG	ELECTRICAL ENGINEERING	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	30
255	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE	MOUZA - KALIDAHA, P.S.- DUM DUM, KOLKATA - 700074 Tel: (033) 2560-0898 Telefax: (033) 2560-0149 E-mail: info@dsec.ac.in	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	AUTOMOBILE ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	120
			UG	CIVIL ENGINEERING	60
			UG	ELECTRONIC MANUFACTURING SERVICES (B.VOC)	25
			PG	MECHANICAL ENGINEERING	18
257	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT	HALDER DIGHI, G.T. ROAD, BAINCHI, DIST.- HOOGHLY, WEST BENGAL – 712134 Ph. (03213) 271339 / 9007030180	PG	COMMUNICATION ENGINEERING	18
			UG	CIVIL ENGINEERING	120
			UG	MECHANICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
259	GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY	PALPARA MORE, NH-34, BHATJANGLA, KRISHNAGAR, NADIA, WEST BENGAL, 741101 Tel: (03472) 271211 Fax: (03472) 271311 E-mail: admin@gimt-india.com	UG	ELECTRICAL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
260			UG	CIVIL ENGINEERING	120
			UG	MECHANICAL ENGINEERING	60
260			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	60

	BENGAL COLLEGE OF ENGINEERING	SHILPO KANAN ROAD, BIDHANNAGAR, DURGAPUR - 713212. Tel: 0343-6512190, 2532606 Fax: 0343-2533186, 2533242 E-mail: skset_dgp@rediffmail.com	UG	ELECTRONICS & COMMUNICATION ENGG	90
261	SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT	DHUKURIA, P.O.-NEW CHAMTA, P.S.-MATIGARA, SILIGURI, DARJEELING, WEST BENGAL, 734009 Tel: (0343) 6467517 E-mail: siemslg@gmail.com	UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	MECHANICAL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	60
263	REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS	BARA KANTHALIA, P.O.: SEWLI TELINI PARA, P.S: TITAGARH NORTH 24 PARGANAS, KOLKATA 700121 Tel: (033) 2535-3051 Telefax: (033) 2535-3052 E-mail: info@rerf.co.in	UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
			UG	INDUSTRIAL TOOL MANUFACTURING (ITM) [B.VOC]	25
			UG	REFRIGERATION AND AIR CONDITIONING (B.VOC)	25
			UG	ELECTRONIC MANUFACTURING SERVICES (B.VOC)	25
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
264	SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE	SONARPUR STATION ROAD, KARBALA, KOLKATA – 700 103 Telefax: 033 2428-3035 Email: info@svist.org	UG	BBA	90
			UG	BCA	120
			UG	B.SC. IN MICROBIOLOGY	30
			UG	B.SC. IN BIOTECHNOLOGY	45
			UG	BTTM	25
			PG	M.SC IN MEDIA SCIENCE	25
			PG	M.SC IN COMPUTER SCIENCE	25
			PG	M.SC IN APPLIED MATHEMATICS	25
			PG	M.SC IN BIOTECHNOLOGY	25
265	DOLPHIN SCHOOL OF HOTEL MANAGEMENT	BALINDI, NO. - 7 MOUJA HARINGHATA, NEAR KALYANI MORE, PIN – 741 246 Ph. 03473-279195/196, 9331881914	UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	90
			UG	B.SC (CULINARY SCIENCE)	60
			PG	M.SC (HOSPITALITY MANAGEMENT)	30

		E-mail: dolphin_kalyani@yahoo.co .in			
266	BENGAL SCHOOL OF TECHNOLOGY & MANAGEMENT	SUGANDHA, DELHI ROAD, HOOGHLY – 712 102 Ph. 033 2686-4913/ 9038552661/8961320467 E-mail: management.bst@gmail.co m	UG UG UG	BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA	60 90 60
269	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY	BAROL, MALIMPUR, RAJHAT, BANDEL- HOOGHLY, PIN-712123 Tel: (033) 2631-0402 E-mail: director@miethooghly.in	UG UG UG UG UG	MECHANICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG ELECTRICAL ENGINEERING COMPUTER SCIENCE AND ENGINEERING CIVIL ENGINEERING	60 60 60 60 60
270	BRAINWARE GROUP OF INSTITUTIONS – SABITA DEVI EDUCATION TRUST	398 RAMKRISHNAPUR ROAD P.S. BARASAT, KOLKATA NORTH 24 PARGANAS WEST BENGAL, 700125 Tel: 09836937446 E-mail: info@brainwaretechnologi es.org	UG UG UG UG UG PG PG	CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING MECHANICAL ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING MASTERS IN BUSINESS ADMINISTRATION	60 60 60 60 60 18 60
271	CAMELLIA INSTITUTE OF ENGINEERING AND TECHNOLOGY	BUD BUD BY – PASS (NORTH), PANAGARH, BARDHAMAN, WEST BENGAL, 713403 Tel: 9007030116/0117/0177: info@camelliagroup.in	UG UG UG UG UG	COMPUTER SCIENCE & ENGINEERING CIVIL ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG MECHANICAL ENGINEERING	60 60 60 60 60
273	NSHM KNOWLEDGE CAMPUS, DURGAPUR – GROUP OF INSTITUTIONS	ARRAH, DURGAPUR, BARDHAMAN, WEST BENGAL, 713212 Tel: (0343) 2533813/814/815, 2561045 Email: info@nshm.com	UG UG UG UG UG UG UG PG PG	ELECTRONICS & COMMUNICATION ENGG MECHANICAL ENGINEERING COMPUTER SCIENCE AND ENGINEERING CIVIL ENGINEERING ELECTRICAL ENGINEERING HOTEL MANAGEMENT AND CATERING TECHNOLOGY BFSI (B.VOC) ELECTRONICS & COMMUNICATION ENGG MASTERS IN BUSINESS ADMINISTRATION	60 60 60 60 60 60 120 25 18 60
275			UG	CIVIL ENGINEERING	60

	OMDAYAL GROUP OF INSTITUTIONS	PLOT NO: 38(P), 38A, 39A, 39(P) , ULUBERIA INDUSTRIAL GROWTH CENTRE, ULUBERIA, HOWRAH, WEST BENGAL, 711316 Tel: 9831722266 E-mail: contact@oders.in	UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
			UG	ARCHITECTURE	40
			UG	B.ARCH (GENERAL)	40
276	BUDGE BUDGE INSTITUTE OF TECHNOLOGY	NISCHINTAPUR BUDGE BUDGE, KOLKATA, SOUTH 24 PARGANAS, WEST BENGAL 700137 Tel: (033) 2482-0676/0670 Telefax: (033) 2482-0641 E-mail: contact@bbit.edu.in	UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	MECHANICAL ENGINEERING	120
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			PG	POWER SYSTEMS	30
			PG	COMPUTER SCIENCE & ENGINEERING	30
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
277	NSHM KNOWLEDGE CAMPUS, KOLKATA – GROUP OF INSTITUTIONS	124(60) B.L. SAHA ROAD, KOLKATA, SOUTH 24 PARGANAS, WEST BENGAL, 700053. Tel: (033) 2403-2301 Fax: (033) 2474-5146 E-mail: info@nshm.com	UG	PHARMACY	100
			UG	BFSI (B.VOC)	25
			UG	TRAVEL AND TOURISM (B.VOC)	25
			UG	MEDICAL IMAGING TECHNOLOGY (B.VOC)	25
			PG	PHARMACEUTICS	24
			PG	PHARMACOLOGY	24
			PG	MASTERS IN BUSINESS ADMINISTRATION (FULL TIME)	120
			PG	MASTERS IN BUSINESS ADMINISTRATION (PART TIME)	60
278	SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS	INSTITUTE OF ENGINEERING & INDUSTRIAL TECHNOLOGY P.O.- MALANDIGHI, DURGAPUR DIST. - BURDWAN , WEST BENGAL, 713212 Tel: 09434006128	UG	ARCHITECTURE	20
			UG	MECHANICAL ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
279	IDEAL INSTITUTE OF ENGINEERING	KALYANI SHILPANCHAL, P.O. +P.S.-KALYANI, DISTRICT-NADIA,	UG	COMPUTER SCIENCE & ENGINEERING	48
			UG	CIVIL ENGINEERING	48
			UG	ELECTRICAL ENGINEERING	48
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	48

		WEST BENGAL, PIN CODE- 741235 Tel: (033) 2502-5628/29 Fax: (033) 2502-5630 E-mail: info@idealinstituteofengin eering.com	UG	MECHANICAL ENGINEERING	48
281	GARGI MEMORIAL INSTITUTE OF TECHNOLOGY CAMPUS	BALARAMPUR(MOUZA -BERELIA) P.S- BARUIPUR KOLKATA 700144 Tel: (033) 6535-0032 E-mail: info@gmitkolkata.org	UG	MECHANICAL ENGINEERING	48
			UG	ELECTRONICS & COMMUNICATION ENGG	48
			UG	ELECTRICAL ENGINEERING	48
			UG	COMPUTER SCIENCE AND ENGINEERING	48
			UG	CIVIL ENGINEERING	48
286	ST. MARY'S TECHNICAL CAMPUS KOLKATA	SAIBANA VILLAGE, OPP: WEST BENGAL STATE UNIVERSITY, ICHAPUR NILGUNGE GRAM PANCHAYAT, BARASAT, NORTH 24 PARGANAS DISTRICT, KOLKATA – 700 126 Ph. 09948399402/9007266031 Fax: 040-66809093	UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	MECHANICAL ENGINEERING	180
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	120
			UG	CIVIL ENGINEERING	120
			PG	MASTERS IN BUSINESS ADMINISTRATION	120
287	ROCKVALE MANAGEMENT COLLEGE	9 TH MILE, RESHI ROAD, KALIMPONG, DARJEELING Tel: +91-3552 259959 E-mail: principal@rockvaleacadem y.com	UG	BBA	60
			UG	BCA	60
			UG	BTTM	30
289	ILEAD (INSTITUTE OF LEADERSHIP ENTREPRENEU RSHIP & DEVELOPMEN T)	113J, MATHESWARTOLA ROAD (NEAR PARK REGENCY HOTEL), KOLKATA 700046 Ph. +91-033 4018-2000 / 9830015201		<u>1ST SHIFT</u>	
			UG	BBA	120
			UG	B.SC. IN MEDIA SCIENCE	120
			PG	M.SC IN MEDIA SCIENCE	60
				<u>2ND SHIFT</u>	
			UG	BBA IN REAL ESTATE MANAGEMENT	60
			UG	B.SC IN MULTIMEDIA, ANIMATION & GRAPHICS	60
			UG	B.SC (INTERIOR DESIGNING)	60
			UG	RETAIL (B.VOC)	50
			UG	RENEWABLE ENERGY (B.VOC)	50
			UG	BEAUTY & AESTHETICS (B.VOC)	50
			UG	ANIMATION (B.VOC)	50
			UG	THEATRE STUDIES (B.VOC)	50
			UG	FASHION DESIGN (B.VOC)	50

290	INSTITUTE OF HOTEL AND RESTAURANT MANAGEMENT	SONARGAON PARK, P.O.- RAMKRISHNAPALLY, TEGHARIA, SONARPUR, KOLKATA – 700150 Telefax: 033 2434- 7138/2434-6885/ 9331007995 E-mail: ihrmceo@gmail.com / ihrmkolkata@gmail.com	UG UG UG	BBA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BCA	60 60 60
291	NETAJI SUBHASH ENGINEERING COLLEGE	TECHNO CITY, GARIA, KOLKATA-152	PG	MASTERS IN COMPUTER APPLICATIONS	45
292	NETAJI SUBHASH ENGINEERING COLLEGE	PANCHPOTHA POLICE PARA, GARIA, KOLKATA – 700084	UG UG	BCA BBA	120 120
294	FUTURE INSTITUTE OF ENGG. AND MANAGEMENT	SONARPUR STATION RD. , R.K. PALLY, KOLKATA – 150	UG UG UG UG UG PG PG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BCA BBA B.SC IN MEDIA SCIENCE BBA (HOSPITAL MANAGEMENT) M.SC IN MEDIA SCIENCE MHA (MASTER OF HOSPITAL ADMINISTRATION)	60 60 60 60 60 30 30
296	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY (MBA DIVISION)	BENGAL PAILAN PARK, PHASE-I, AMGACHIA ROAD, JOKA (OFF DIAMOND HARBOUR ROAD), KOLKATA- 700104 Tel: (033) 24978006/007, 2453-5605 Fax: (033) 2453-5604 E-mail: pcmt@pcmt- india.net	PG	MASTERS IN BUSINESS ADMINISTRATION	30
297	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY	PAILAN PARK, HOUSING PROJECT, PHASE – I, PAILAN Tel: (033) 24978006/007, 2453-5605 Fax: (033) 2453-5604 E-mail: pcmt@pcmt- india.net	UG UG UG UG UG UG UG UG	BBA BCA B.OPTOM (BACHELOR OF OPTOMETRY) BBA (HOSPITAL MANAGEMENT) B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION B.SC IN MEDIA SCIENCE BTTM	75 75 30 120 45 45 20

298	INSTITUTE OF BUSINESS MANAGEMENT & RESEARCH	6/1 SWINHOE STREET KOLKATA – 19 Ph. 033 - 2441-4822/23 Fax: 91-33-2441-4824 E-mail: ibmr@vsnl.com	UG UG	BBA BCA	50 40
299	CALCUTTA INSTITUTE OF ENGG. AND MANAGEMENT	24/1 CHANDI GHOSH ROAD, KOLKATA – 700 040	UG UG	BBA BCA	40 40
300	INSTITUTE OF ENGINEERING & MANAGEMENT	SECTOR V, SALT LAKE KOLKATA – 700 091 Ph. 033 2357-2969/2059/2995/8189 Fax: 91-33 2357-8302 E-mail: director@iemcal.com	UG UG PG	BCA BBA M.SC IN COMPUTER SCIENCE	120 120 20
301	B. P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY	EN 31, SALT LAKE, KOLKATA – 91 Ph. 2357-2508/09 Fax: 033-2357-2510 E-mail: bppimt@cal3.vsnl.net.in	UG UG	BCA BBA	90 120
303	COMPUTER APPLICATION CENTRE, HERITAGE INSTITUTE OF TECHNOLOGY	994, MADURDAHA, CHOWBAGA ROAD, ANANDAPUR P.O.-EAST KOLKATA TOWNSHIP, KOLKATA, SOUTH 24 PARGANAS, WEST BENGAL, 700107	PG	MASTERS IN COMPUTER APPLICATIONS	60
304	HERITAGE BUSINESS SCHOOL	994, MADURDAHA, CHOWBAGA ROAD, ANANDAPUR, P.O: EAST KOLKATA TOWNSHIP	PG	MASTERS IN BUSINESS ADMINISTRATION	180
305	NARULA INSTITUTE OF TECHNOLOGY	81, NILGUNJ ROAD, AGARPARA, KOLKATA-700109	PG	MASTERS IN BUSINESS ADMINISTRATION	60
306	NARULA INSTITUTE OF TECHNOLOGY	81, NILGUNJ ROAD, AGARPARA, PIN – 743 177	UG UG	BBA BCA	90 120
307	TECHNO INDIA (STAND ALONE MCA)	EM-4/1, SECTOR-V, SALT LAKE, KOLKATA-700091	PG	MASTERS IN COMPUTER APPLICATIONS	60
308	TECHNO INDIA (MBA)	EM-4/1, SECTOR-V, SALT LAKE, KOLKATA-700091	PG	MASTERS IN BUSINESS ADMINISTRATION	60
309	TECHNO INDIA	EM-4/1, SECTOR-V, SALT LAKE, KOLKATA – 700091	UG UG UG	BBA BCA B.OPTOM (BACHELOR OF	120 120 20

			UG	OPTOMETRY)	60
			UG	BBA (HOSPITAL MANAGEMENT)	120
			UG	B.SC IN MEDIA SCIENCE	60
			UG	BBA (INSURANCE & RISK MANAGEMENT)	60
			UG	B.SC IN HOSPITALITY AND HOTEL	60
			UG	ADMINISTRATION	30
			PG	BTTM	60
			PG	BBA (SUPPLY CHAIN MANAGEMENT)	60
				M.SC IN INFORMATION SCIENCE	
				MHA (MASTER OF HOSPITAL ADMINISTRATION)	
310	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY	MADURDAHA, UCHHAPOTA, KOLKATA – 700 150	UG	BBA	120
			UG	BCA	120
311	GURUNANAK INSTITUTE OF TECHNOLOGY	157/F NILGANJ RD., PANIHATI, 24 PGS(N)-743176	UG	BBA (HOSPITAL MANAGEMENT)	60
			UG	BCA	60
312	GURUNANAK INSTITUTE OF HOTEL MANAGEMENT	157/ NILGUNJ ROAD, PANIHATI, W.B. Tel: (033) 2523-1246 Fax: (033) 2289-3945 E-mail: samapika@jisgroup.org	UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	120
313	GURUNANAK INSTITUTE OF PHARMACEUTICAL SCIENCE & TECHNOLOGY	157/F NILGUNJ ROAD, PANIHATI, KOLKATA – 700114 Tel: (033) 2523-1247 Fax: (033) 2528-9000 E-mail: info@gnipst.ac.in	UG	BBA (HOSPITAL MANAGEMENT)	30
			UG	B.SC. IN BIOTECHNOLOGY	40
			UG	B.SC. IN MICROBIOLOGY	40
			UG	B.SC IN GENETICS	30
			UG	B.SC (MEDICAL LAB TECHNOLOGY)	30
			PG	MASTER OF MANAGEMENT STUDIES (PHARMACEUTICAL MANAGEMENT)	15
			PG	M.SC IN BIOTECHNOLOGY	30
			PG	M.SC IN GENETICS	30
			PG	M.SC IN MICROBILOGY	30
314	TECHNO INDIA COLLEGE OF TECHNOLOGY	MEGHA CITY, NEW TOWN, KOLKATA Tel: (033) 27062050 Telefax: (033) 27062060 E-mail: info@ticollege.org	UG	BBA	60
			UG	BCA	60
317	JIS COLLEGE OF ENGINEERING	BLOCK-A, PHASE III, KALYANI, NADIA, WEST BENGAL, 741235	PG	MASTERS IN BUSINESS ADMINISTRATION	60
318	JIS COLLEGE OF ENGG.	BLOCK A, PHASE III, KALYANI, NADIA, PIN – 741 233	UG	BBA	120
			UG	BCA	100
320	SAROJ MOHAN INSTITUTE OF TECHNOLOGY	GUPTIPARA, HOOGHLY, PIN – 712 512	UG	BBA	30
			UG	BCA	30
			UG	BBA (HOSPITAL MANAGEMENT)	30

321	INSTITUTE OF SCIENCE & TECHNOLOGY	DHURABILA, DHAMKURA, PASCHIM MEDINIPUR – 721 201	UG UG UG PG	BBA BCA BBA (HOSPITAL MANAGEMENT) MHA (MASTER OF HOSPITAL ADMINISTRATION)	30 30 30 18
322	ASANSOL ENGINEERING COLLEGE	KANYAPUR, ASANSOL, BURDWAN, PIN – 713304	UG UG UG	BCA BBA BBA (INSURANCE & RISK MANAGEMENT)	60 60 60
323	DR. B. C. ROY ENGINEERING COLLEGE	ACADEMY OF PROFESSIONAL COURSES, JEMUA ROAD, FULJHORE, DURGAPUR, PIN – 713 206	UG UG UG	BBA BCA BBA (HOSPITAL MANAGEMENT)	120 120 60
324	BENGAL COLLEGE OF ENGG. & TECHNOLOGY	BIDHAN NAGAR, DURGAPUR – 713 212	UG UG UG	BBA BCA BBA (HOSPITAL MANAGEMENT)	90 90 30
326	MANAGEMENT INSTITUTE OF DURGAPUR	RAJBANDH, NEAR IOC, BURDWAN – 713 212	UG UG	BBA BCA	100 100
327	ARYABHATTA INSTITUTE OF ENGG. & MANAGEMENT	PANAGARH, P.O. PANAGARH BAZAR, BURDWAN – 713148	UG UG UG	BBA BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	60 60 30
328	ABS ACADEMY OF SCIENCE, TECHNOLOGY AND MANAGEMENT	J. P. AVENUE, SAGARBHANGA, DURGAPUR – 713 211 Tel: (0343) 2550697/98 Fax: (0343) 2550699 E-mail: info@absacademy.com	UG UG UG UG UG	BBA BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA (HOSPITAL MANAGEMENT) B.OPTOM (BACHELOR OF OPTOMETRY)	60 60 60 60 60
329	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT	SRINIKETAN BYPASS, DORANDA, BIRBHUM – 731236	UG UG UG	BBA BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	60 60 60
330	MURSHIDABA D COLLEGE OF ENGG. AND TECHNOLOGY	BANJETIA, MURSHIDABAD – 742 102 Ph. 03482-275603/275233 Telefax: 03482-275603	UG UG	BBA BCA	60 60
331	DUMKAL INSTITUTE OF ENGG. & TECHNOLOGY	P.O. BASANTAPUR, MURSHIDABAD – 742 406	UG UG	BBA BCA	60 60
332	TECHNO INTERNATION	PUTKHALI, WARD NO.- 30, HOLDING NO.-B7-	UG UG UG	MECHANICAL ENGINEERING ELECTRICAL ENGINEERING CIVIL ENGINEERING	60 60 60

	AL BATANAGAR (FORMERLY TECHNO INTERNATIONAL WEST KOLKATA)	360/NEW , MAHESHTALA, SOUTH 24 PARGANAS, WEST BENGAL, 700141 Tel+Fax: (033) 2490- 0002/2490-0011 E-mail: biems@batanagarinstitute.com	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
333	IMS BUSINESS SCHOOL	VILL-MAKRAMPUR, GHUTIARY SHARIF STATION ROAD, P.O.KUSTIA, P.S.SONARPUR, PIN- 700150 Ph.033 2426- 4168/9831637683 Fax: 91-33-2426-4832 E-mail: tapashsaha@hotmail.com	PG	MASTERS IN BUSINESS ADMINISTRATION (GENERAL MANAGEMENT)	60
334	SILIGURI INSTITUTE OF TECHNOLOGY	HILL CART ROAD, P.O. - SUKHNA, DIST. - DARJEELING	UG UG UG UG UG	BCA BBA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA (HOSPITAL MANAGEMENT) BTTM	120 120 60 60 60
335	SILIGURI INSTITUTE OF TECHNOLOGY (HMCT)	HILL CART ROAD, SUKNA SILIGURI, DARJEELING, WEST BENGAL, 734009	UG	HOTEL MANAGEMENT AND CATERING TECHNOLOGY	45
336	SILIGURI INSTITUTE OF TECHNOLOGY (MCA)	HILL CART ROAD, SALBARI, SILIGURI, DARJEELING, WEST BENGAL, 734009	PG	MASTERS IN COMPUTER APPLICATIONS	60
337	GLOBAL GROUP OF INSTITUTIONS	AT+P.O.- SRIKRISHNAPUR, P.S- SUTAHATA, HALDIA, DISTRICT - PURBA MEDINIPUR, PIN - 721635 Ph.03224- 273441/9233303993/ 9434230392 E-mail: ggi@institutions.org	UG UG UG	BBA BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	40 40 90
338	IIAS SCHOOL OF MANAGEMENT - SILIGURI	IIAS SCHOOL OF MANAGEMENT, NEAR PINTAIL VILLAGE, DAGAPUR, P.O. PRADHANNAGAR,	UG UG	BBA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	40 100

		SILIGURI, (W.B), PIN – 734003 Ph. 0353-2516335 / 9674744820 Fax: 0353-2516335 E-mail: slg_iassil@bsnl.in			
339	BHARATIYA VIDYABHAVAN INSTITUTE OF MANAGEMENT SCIENCE	BLOCK FA: SECTOR - III, SALT LAKE CITY, KOLKATA - 700 097. Ph. 2335-8754/1283/1284/0152 Fax: 2335-8754 E-mail: admin@bimskol.org	UG	BBA	60
340	CONTAI COLLEGE OF LEARNING & MANAGEMENT SCIENCE	PADMAPUKHURIA (KUMARPARA), P.O. & P.S.-CONTAI, DIST.-PURBA MEDINIPUR, PIN-721401 (W.B.) Ph.03220-288070/9733593525	UG UG	BCA B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	60 30
341	SBIHM SCHOOL OF MANAGEMENT	JAGANNATHPUR ROAD, NEAR BARASAT STATE UNIVERSITY P.O. MALIKAPUR P.S. BARASAT, KOLKATA - 700 126. Ph. 9830012536/2359-8508 E-mail: hrd_sbihm@yahoo.in	UG UG UG UG UG UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BBA BCA BBA (HOSPITAL MANAGEMENT) B.SC IN MEDIA SCIENCE BTTM	120 60 60 120 60 60
342	FUTURE INSTITUTE OF TECHNOLOGY	240, BORAL MAIN ROAD, GARIA, KOLKATA, WEST BENGAL, 700154	UG UG UG UG UG	COMPUTER SCIENCE & ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING ELECTRICAL ENGINEERING MECHANICAL ENGINEERING CIVIL ENGINEERING	60 60 60 60 60
343	HEMNALINI MEMORIAL COLLEGE OF ENGINEERING	MOUZA-BALINDI, J.L. NO. 7, P.S. HARINGHATA, DIST.-NADIA, PIN-741246, KALYANI, NADIA, WEST BENGAL, 741246	UG UG UG UG	CIVIL & ENVIRONMENTAL ENGINEERING CIVIL ENGINEERING MECHANICAL ENGINEERING COMPUTER SCIENCE & ENGINEERING	60 60 60 60
344	INSPIRIA KNOWLEDGE CAMPUS	HIMACHAL VIHAR – PHASE II, MATIGARA, SILIGURI – 734010, DISTRICT – DARJEELING, WEST BENGAL.	UG UG UG UG UG	FOOD TECHNOLOGY BBA (HOSPITAL MANAGEMENT) BBA BCA B.SC IN MEDIA SCIENCE B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION	60 50 60 60 60 60

		Ph. +913532571111/1257 E-mail: contact@inspiria.net.in			
345	GLOBAL COLLEGE OF SCIENCE AND TECHNOLOGY	PALPARA MORE, NH – 34, KRISHNAGAR, NADIA, PIN – 741102.	UG UG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION BCA	60 60
346	ELITTE COLLEGE OF ENGINEERING	P.O. KARNAMADHABPUR (NEAR MOHISPOTA), P.S. GHOLA, SODEPUR, KOLKATA – 7000113, BARRACKPUR, NORTH 24 PARGANAS, WEST BENGAL – 700113.	UG UG UG UG	ELECTRICAL ENGINEERING CIVIL ENGINEERING MECHANICAL ENGINEERING COMPUTER SCIENCE & ENGINEERING	60 60 120 60
347	JLD ENGINEERING AND MANAGEMENT COLLEGE	MOUZA, BEGAMPUR, PO-TENTULIA, PS-BARUIPUR, BARUIPUR, SOUTH 24 PARGANAS, WEST BENGAL – 743610.	UG UG UG UG UG	COMPUTER SCIENCE AND ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING MECHANICAL ENGINEERING ELECTRICAL ENGINEERING CIVIL ENGINEERING	60 60 60 60 60
348	EMINENT COLLEGE OF MANAGEMENT & TECHNOLOGY	MOSHPUKUR, BARBARIA, VILL – PASCHIM KHILKAPUR, BARASAT, WEST BENGAL, PIN – 700 126.	UG UG UG PG	BBA BCA BBA (HOSPITAL MANAGEMENT) M.SC IN COMPUTER SCIENCE	60 60 30 15
349	COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE	HARINCHAWRA, P.O. – GHUGHUMARI, DIST – COOCHBEHAR, PIN – 736170.	UG UG UG UG UG	CIVIL ENGINEERING COMPUTER SCIENCE & ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING MECHANICAL ENGINEERING	60 60 60 60 60
350	RAMKRISHNA MAHATO GOVERNMENT ENGINEERING COLLEGE PURULIA (FORMERLY PURULIA GOVERNMENT ENGINEERING COLLEGE)	VILLAGE – CHAS MORE, P.O. – CHAS ROAD, P.S. – JOYPUR, DIST. – PURULIA.	UG UG UG UG UG	CIVIL ENGINEERING COMPUTER SCIENCE & ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING MECHANICAL ENGINEERING	60 60 60 60 60

351	SWAMI VIVEKANAND A INSTITUTE OF MODERN STUDIES	BARA KANTHALIA, BARRACKPORE, P.O.: SEWLI TELINI PARA, DIST:- NORTH 24 PARGANAS, PIN – 700121. Ph. 033- 30085446/5434/5433 Fax – 033-30085441	UG UG	BBA BCA	60 60
352	P. G. INSTITUTE OF MEDICAL SCIENCES	DHURABILA, DHAMKURIA, CHANDRAKONA TOWN, PASCHIM MEDINIPUR, WEST BENGAL – 721201. Ph. 03225-266644	UG	PHARMACY	50
353	BIRBHUM PHARMACY SCHOOL	MOUZA – BANDHERSOLE, PS – SADAIPUR, PO – HETAMPUR, CHINPAI GRAM PANCHAYAT, CHINPAI, BIRBHUM, WEST BENGAL – 731124.	UG	PHARMACY	50
354	EMINENT COLLEGE OF PHARMACEUTI CAL TECHNOLOGY	MOSHPUKUR, BARBARIA, PO: JAGANNATHPUR, BARASAT, KOLKATA – 700 126. Ph. 9830052706 / 9434180053	UG	PHARMACY	50
355 356	GHANI KHAN CHOUDHURY INSTITUTE OF ENGINEERING AND TECHNOLOGY GLOBAL COLLEGE OF PHARMACEUTI CAL TECHNOLOGY	NARAYANPUR, MALDA, MALDA, WEST BENGAL – 732141. Ph. 8974055106	UG	ELECTRICAL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
			UG	FOOD PROCESSING TECHNOLOGY	60
		PALPARA MORE, NH-34, KRISHNANAGAR, NADIA, W.B., INDIA – 741102. Ph. 03472-271211 Fax : 03472-271311 E-Mail: admngcpt@gmail.com	UG	PHARMACY	60
357	TECHNO ARTSACRE	ACTION AREA III, F 30 RAJARHAT NEWTOWN,	UG	B.SC. IN FASHION DESIGN & MANAGEMENT	60 60

	SCHOOL OF DESIGN AND MEDIA	KOLKATA – 700135. Ph. No. 033 6560 0207	UG	B.SC. (INTERIOR DESIGNING)	
358	SUBHAS BOSE INSTITUTE OF HOTEL MANAGEMENT	RAJARHAT MAIN ROAD, ACTION AREA I, JATRAGACHI, P.O. GHUNI, P.S. – NEWTOWN, KOLKATA – 700157.	UG UG UG PG	B.SC IN HOSPITALITY AND HOTEL ADMINISTRATION B.SC. IN FASHION DESIGN & MANAGEMENT B.SC (CULINARY SCIENCE) M.SC (HOSPITALITY MANAGEMENT)	60 60 60 60
359	SUSRUT EYE FOUNDATION & RESEARCH CENTRE	HB-36/A/1, SECTOR III, SALT LAKE, KOLKATA – 700106.	PG	MASTER OF OPTOMETRY (MOPTOM)	10