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## **2016-17**



**Maulana Abul Kalam Azad University of Technology, West Bengal**  
**( formerly West Bengal University of Technology )**  
**BF-142, Sector – I, Saltlake- 700064**  
**[www.wbut.ac.in](http://www.wbut.ac.in)**



### From The Desk of The Vice Chancellor



Prof. Saikat Maitra

Maulana Abul Kalam Azad University of Technology, West Bengal (formerly known as West Bengal University of Technology), BF-142, Sector-1, Salt Lake, Kolkata - 700064 was established vide West Bengal University of Technology Act, 2000 passed by the West Bengal Legislature. Since the establishment of the University in the year 2000, the University has been striving for academic excellence and significant contributions in the field of higher education by generation and dissemination of knowledge through value based quality education and research. It is the only Technology University of the state aided by the Government of West Bengal, India. The University has been subsequently recognized under 2(f) and 12 (b) of the UGC Act and approved by All India Council for Technical Education (AICTE) New Delhi. This University has been vested with the power of affiliation to the Colleges desiring to conduct the Engineering & Technology, Management, Pharmacy, Architecture and Applied Science courses located all over the state of West Bengal. It is having two campuses located at Salt Lake, Kolkata - 700064 and Haringhata, District- Nadia, West Bengal respectively. Hostel facility is available for both boys and girls students. Presently the University is running two UG courses and ten PG courses. And it is dedicated to impart education to the students belonging to different strata of society irrespective of their caste, gender and creed. In the span of seventeen years of its existence, the University has successfully established the credentials in the ever changing and challenging scenario of academic growth. The University is exerting its best possible effort to uplift the disadvantaged and academically weak students by empowering them through education. Side by side, the social, moral, aesthetic and ethical values amongst the students are also being developed through proper mentoring and social outreach activities. The students are trained efficiently so that they may be competent enough to face the challenges in the rapidly changing global technological scenario and contribute significantly to the economic growth of the nation.

In the pursuit of academic excellence, the University is exerting its relentless efforts in the dissemination of knowledge by publishing its researches with the financial assistance from several funding agencies in the different international peer reviewed journals and also by collaboration and networking of researches and studies with several premier research institutes and universities both nationally and internationally.

The persistent efforts of the University in the pursuit of quality education were recognised in the form of Technical Education Quality Improvement Programme (TEQIP – II) funded by the World Bank. Successful implementation of the project resulted in provisional selection of the University for receiving further grants under TEQIP - III as a mentoring technical institutions of north-east and other low income states of India.

It may be mentioned further that it is the only University in the state having a formal Technology Business Incubation Centre for nurturing Start-ups and Innovations.

In the days to come the University aspires to emerge as a globally recognised top ranking university by imparting value based quality teaching to its students and carrying out extensive training, research and consultancy in various spheres of Engineering & Technology, Management, Architecture, Pharmacy and Applied Sciences and we strongly believe that combined efforts of all the stakeholders will definitely make it happen.



### **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 of 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, Post B.Sc Integrated Ph. D. in Molecular Biology, Microbiology and Genetics and Ph.D. programs in emerging areas.

### **Vision of The University**

To achieve the status a globally ranked of premier Technology University ranked globally 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 transform 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.



*Vice-Chancellor's Section*

### **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 21 teaching personnel.

The basic objective of the University is be to organize undergraduate courses of study in Engineering and Technology, specially in emerging areas. The University now affiliates 197 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 intake



capacity of about 6000 students at post graduate level. In this venture our affiliates are our cherished partners. It continuously seek 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 grant 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.

### 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 twice in 2016. The first phase was conducted during May-June, while JEMAT 2016 (Phase II) was held in the month of July.

### 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 2016.



*Information Scientist's section*



### List of MoUs during 2016-17

- MoU between Department of Biotechnology, Maulana Abul Kalam Azad University of Technology, West Bengal, India and Department of Life Science, Hanyang University, 222 Wangsimni-ro, Seogdong-gu, Seoul, Korea made on 08-09-2016.
- MoU between Maulana Abul Kalam Azad University of Technology, West Bengal, India and Sapience Consulting- Texas Instruments University Programme Partner, India made on 21-07-2016.
- MoU between Maulana Abul Kalam Azad University of Technology, West Bengal, India and ICAI made on 30-03-2017.



Registrar's Section

### University Campuses



Department of Biotechnology & EKTA Incubation Centre at Haringhata



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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.



*Coming up staff Quarters at Haringhata Campus*

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.



*Guest house at Haringhata campus*

The University has developed an adequate IT infrastructure with more than 400 high end PCs installed in different laboratories with 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 from NKN along with

100 Mbps internet connectivity.

The campus is 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, Bank, Crèche, 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.

## Academic Activities

### Teaching Departments (In-House)

The University is having 7 (seven) departments at its campus.

Name of the department	Year of inception	Courses offered	Students intake		Faculty strength filled up			
			UG	PG	P	R	L	PO
Computer Science & Engineering	2003	i) B.Tech. in CSE	30		1	2	9	
		ii) M.E. in CSE		18				
		iii) M.Tech. in Software Engineering		18				
	2007	iv) M.Tech in Microelectronics & VLSI Technology		18				
				18				
Information Technology		i) B.Tech. in IT ii) M.Tech. in IT	30	18				
Industrial Engineering & Management	2008	i) M. Tech in Industrial Engineering & Management		18				
Biotechnology	2003	i) M.Tech. Biotechnology		21	1		1	1
	2005	ii) Post BSc Int. Ph.D. in Mol. Biology		5				
	2007	iii) Post BSc Int. Ph.D. in Microbiology		5				
	2014	iv) Post BSc Int. Ph.D. in Genetics		5				
Bioinformatics	2004	i) M.Tech Bioinformatics		18		1		2
Management	2006					1		
Natural Sciences					1		1	
Total			60	162	3	4	11	3

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

The University has applied for NAAC as well as NBA accreditation for five of its courses.



## 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 IT. All the courses are approved by AICTE.

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

There is a proposal for opening up B.Tech courses in Electronics and Communication in addition to the present B.Tech. courses in the near future.

### *Department of Computer Science & Engineering*



*Department of CSE and IT*

#### **Sriyankar Acharya, Professor**

Dr. Acharya obtained M. Tech. and Ph.D. in Computer Science & Engineering 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 Reader in Computer Science & Engineering at Visva Bharati University and worked there from Sept 2005 to Dec 2005. From Dec 2005 onwards he is working as a Reader in West Bengal University of Technology, Kolkata. His current area of research interest is Constraint Satisfaction Problems (CSP), Meta-heuristic Search, Combinatorial Optimization, Scheduling, Search Techniques and Genomics.

**Dr. Debashis De**, *Associate Professor & HoD Dept. of CSE & Dept. of IT*

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 West Bengal University of Technology, India, and Adjunct research fellow at the University of Western Australia, Australia. He was awarded the prestigious Boyscast 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 Person education, Vikas publishers.

**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. She is the Coordinator of Industry-Institute-Interaction Cell in MAKAUT, West Bengal. 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 transport in Quantum Nano-Structure devices in which one of her research papers have received citations in Nature, 2016. She is supervising 4 students for their doctoral thesis and she is guiding 18 M Tech and B Tech students. She has guided more than 35 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. 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 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 Photonics 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

**Dr. Suparna Biswas, Assistant Professor**

Dr. Biswas obtained her ME and Ph.D from Jadavpur University, India. She is an Assistant Professor in the Department of Computer Science & Engineering, Maulana Abul Kalam Azad University of Technology, W.B., (formerly WBUT), India since 2005. She has post doctoral research experience as a EU research fellow in cLINK project at Northumbria University, Newcastle, UK, 2014 to 3rd July, 2015. Her research interest includes mobile computing, wireless networks, security etc. She has co-authored a number of Research papers published in International Conferences and peer-reviewed Journals.

**Dr. Kaushik Majumder, Assistant Professor**

Dr. 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 1<sup>st</sup> class 4<sup>th</sup> and 1<sup>st</sup> class 2<sup>nd</sup> 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 1<sup>st</sup> in the state of West Bengal in 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 Department of Electronics and Information Technology (DeitY). He has published several papers in International and National level journals and conferences and book chapters. He is a Senior Member, IEEE, 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 journal and conferences of repute.

**Dr. Santanu Phadikar, Assistant Professor**

Dr. Phadikar is currently working as an assistant professor in the department of Computer Science and Engineering. He has passed his graduation from Vidyasagar University and passed his master degrees 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 gradation in his subject. He has also received National Schollership for higher study. He has served Vidyasagar University as Lecture from 2002 to 2006. After that he is serving this University. He has good number of publications in reputed Journals and Conferences. He is working in the field of smart farming, voice processing and image processing. He is currently running the project ISEA-II as chief investigator.

**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 eighteen years of teaching experience in different engineering colleges. He started his career as 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, Image Processing, Data Structures, Compiler Design, Algorithm Analysis & Design and Formal Language and Automata Theory. He is pursuing his PhD in Image Processing.

**Mr. Subhanjan Sarkar, Assistant Professor**

Mr. Subhanjan Sarkar has done his B.Tech and M.Tech. in Computer Science & Engineering from Department of Computer Science & Engineering, Calcutta University. Before joining WBUT Mr. Sarkar has taught in several Engineering colleges. His areas of interest are Data structures.

**Mr. Santanu Chatterjee, Assistant Professor**

Mr. Chatterjee completed his BE from Jalpaiguri Govt. Engineering College (under North Bengal University) in 2002, and ME in Computer Science and Engineering (with specialization in Embedded Systems) from West Bengal University of Technology in 2005. His areas of interest include Operating Systems, System Software, and Programming Language Theory. He also likes to learn new programming languages as a hobby. He is passionate about GNU/Linux and other Open Source technologies.

**Mr. Saikat Basu, Assistant Professor**

He passed ME from Jadavpur University. He worked in various capacities before joining WBUT. He started his career as Lecturer in Haldia Institute of Technology, served as Senior Lecturer in Dr. B.C Roy Engineering College and also worked as Assistant Director of Software Technology Parks of India. He has around fourteen years of teaching experience. His topics of interest are Data structure, Networking, Internet-working, Microprocessor, digital electronics etc. His research interest is AD-HOC networking.

**Dr. Amiya Karmakar, Assistant Professor**

Dr. Karmakar obtained his M. E. in Computer Sc. & Engg. with specialization in Embedded Systems from West Bengal University of Technology in 2005 and Ph.D in Computer Science and Engg. in 2015. He has been engaged in teaching and research for the last nearly thirteen years. He worked at West Bengal University of Technology as Project Officer for last Eleven years. Prior to this he was faculty in Women's Polytechnic College, Dakhuria, Kolkata for two years. At present he is an Assistant Professor in the Dept. of CSE/ECE, at MAKAUT, WB. His area of research include Embedded System Design, Re-configurable Architecture using FPGAs, Software Defined Radio, VLSI design, Digital Signal Processing, etc..

**Sujoy Mistry, Assistant Professor**

Mr. Mistry 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 2017. He has almost three years of teaching experience in different colleges. Mr. Sujoy Mistry received a bachelor's (B.Sc) degree in Computer Science in 2005 and a master's (M.Sc) degree in Computer and information Science in 2007 from University of Calcutta, Kolkata, West Bengal, India. After that he has completed his M.Tech degree in Computer Science and Engineering from University of Calcutta in 2009. He has submitted his thesis for the completion of Ph.D degree from Jadavpur University, Kolkata, India in March 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. 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.

**Sriparna Saha, Assistant Professor(joined in Apr, 2017)**

Ms. Saha received her B.Tech degree in Electronics & Communication Engineering (ECE ) Department from RCC Institute of Information Technology under West Bengal University of Technology and M.E. degree in Electronics and Tele-Communication Engineering (ETCE) Department from Jadavpur University and is currently pursuing her Ph.D. on Machine Intelligence in Artificial Intelligence Laboratory, Jadavpur University, India. All though her masters, she is a recipient of GATE fellowship and awarded UGC fellowship to pursue her Ph.D.

She has offered currently post-graduate level courses in Intelligent Automation and Robotics, Jadavpur



University, Calcutta. Currently, She is the assistant professor of Maulana Abul Kalam Azad University (formerly known as West Bengal University of Technology), Salt Lake, India.

**Dhiman Karmakar**, *Assistant Professor* (will join soon)

Mr. Karmakar served Surendranath College, Kolkata, for three years as an Assistant Prof. in the Dept. of Computer Science. Erst he was associated in a research project on “color face recognition” in Machine Intelligence unit of Indian Statistical Institute, Kolkata. He did his graduation in Computer Sc. (Hons.) from University of Calcutta. He received Master of Computer Application and M.Tech. (in Computer Sc. and Engg.) degrees, both from University of Calcutta. He has qualified UGC NET in Computer Sc. & Applications and consequently ranked in WBCSC. He was also selected for CSIR Senior Research Fellowship in Computer Engineering Sciences. He is pursuing his Ph.D(Tech) from the Computer Sc. & Engg. department of University of Calcutta. During the teaching days he developed expertise in topics like data structure, algorithm and shell scripting. His research interests include Computer Vision, Multimodal Biometrics, and Speech/ Speaker Recognition.

### ACTIVITIES UNDERTAKEN IN THE DEPARTMENT BESIDES TEACHING

#### Publications/Journals

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- Snehasish Karmakar, Sugato Chakraborty, Tryambak Chatterjee, Arindam Baidya, Sriyankar Acharyya (2016): Meta-heuristics for solving nurse scheduling problem: A comparative study, *Proceedings of IEEE International Conference on Advances in Computing, Communication, & Automation (ICACCA)* , pp 1- 5.
- J.Saha, C. Chowdhury, S. Biswas, Device Independent Activity Monitoring using Smart Handhelds, in *Proceedings of the IEEE 7<sup>th</sup> International Conference on Cloud Computing, Data Science & Engineering – Confluence*, January 2017, pp. 410-415



- Saha, C.Chowdhury,S.Biswas,Patient Monitoring Framework for Smart Home Using Smart Handhelds, in Proceedings of the IEEE International Conference on Wireless Communications, Signal Processing and Networking WiSPNET17 ,March2017, pp. 23822387
- R. Saha, S. Biswas and G, Pradhan,"A Priority Based Routing Protocol with Extensive Survey and Comparison of Related Works for Healthcare Applications Using WBAN",in IEEE WiSPNET 2017 conference, Chennai , India ,pp. 14531459, 2224 March 2017.
- K. Karmakar ,S. Biswas and S. Neogy "MHRP: A Novel Mobility Handling Routing Protocol in Wireless Body Area Network",in IEEE WiSPNET 2017 conference, Chennai , India, pp. 19681974, 2224 March 2017.
- Sadip Midya, Koushik Majumder, Asmita Roy, Debashis De Vertical Handoff Mechanisms in VANET, A survey. International Conference on Information and Communication Technology for Competitive Strategies (ICTCS), 2016, ACM
- Asmita Roy, Priti Deb, Sadip Midya, Debashis De, Koushik Majumder Femtocell Based Load Balancing using a Non-cooperative game . International Conference on Intelligent Communication, Control and Devices (ICICCD), 2017, Springer
- Sadip Midya, Asmita Roy, Koushik Majumder, Debashis De, Santanu Phadikar An Efficient Handoff Using RFID Tags. International Conference on Intelligent Communication, Control and Devices (ICICCD), 2017, Springer
- Sadip Midya, Asmita Roy, Koushik Majumder, Debashis De, Santanu Phadikar A fast hand off mechanism using RFID tags for vehicular adhoc network. International Conference on Computing, Communication and Automation (ICCCA), 2016, IEEE
- Asmita Roy, Sadip Midya, Priti Deb, Debashis De, Koushik Majumder Efficient spectrum utilization for femtocell using cooperative game. International Conference on Computing, Communication and Automation (ICCCA), 2016, IEEE
- Ishita Bhakta, Santanu Phadikar, Koushik Majumder Additive and Non-Additive Entropy Evaluation for Skin Lesion Segmentation. International Conference on Microelectronics Circuits and Systems (MICRO), 2016
- Prasanna Roy, Sadip Midya, Koushik Majumder Handoff Schemes in Vehicular Ad-Hoc Network: A Comparative Study. International Symposium on Intelligent Systems Technologies and Applications (ISTA), 2016, Springer
- Prasanna Roy, Sadip Midya, Koushik Majumder WiMAX Based Scanning Schemes in Vehicular Ad-Hoc Network: A Survey, Smart Trends for Information Technology and Computer Communications (SmartCom), 2016, Springer
- Debojyoti Hazra, Asmita Roy, Sadip Midya, Koushik Majumder, Distributed Task Scheduling in Cloud Platform: A Survey,International Conference on Smart Computing and Informatics (SCI), 2017, Springer
- Debojyoti Hazra, Asmita Roy, Sadip Midya, Koushik Majumder Energy aware task scheduling algorithms in cloud environment: A survey. International Conference on Smart Computing and Informatics (SCI), 2017, Springer
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- Suchana Datta, Palash Santra, Koushik Majumder, Debashis De, An Automated Malicious Host Recognition Model in Cloud Forensic. International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCS), 2016, Springer
- Santanu Phadikar, Piyali Das, Ishita Bhakta, Asmita Roy, Sadip Midya, Koushik Majumder Bengali Phonetics Identification using wavelet based signal feature. Computational

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  - Ishita Bakta, Santanu Phadikar, “Evaluation of Entropy-Based Segmentation Techniques for Automated Skin Disease Detection”, *Proceeding of International Conference on Intelligent Communication, Control and Devices*, pp.335-341, 2016.
  - Ishita Bhakta, Santanu Phadikar., and Koushik Majumder, “Additive and Non-additive Entropy Evaluation for Skin Lesion Segmentation”. In the proceedings of the TEQIP-II Sponsored 3rd International Conference on Microelectronics, Circuits and Systems (Micro2016), 9-10th July, 2016, Kolkata, India
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  - 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.
  - Sriparna Saha, Saurav Bhattacharya and Amit Konar. “Comparison between Type-1 Fuzzy Membership Functions for Sign Language Applications”, *International Conference on Microelectronics, Computing and Communications (Microcom)*, IEEE, 2016.
  - Monalisa Pal, Sriparna Saha and Amit Konar. “Distance Matching Based Gesture Recognition For Healthcare Using Microsoft’s Kinect Sensor”, *International Conference on Microelectronics, Computing and Communications (Microcom)*, IEEE, 2016.
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  - Sriparna Saha, Rimita Lahiri, Amit Konar, Bonny Banerjee and Atulya K. Nagar. “Human Skeleton Matching for E-learning of Dance Using A Probabilistic Neural Network”, *International Joint*



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- Sriparna Saha, Saurav Bhattacharya and Amit Konar. “A Novel Approach to Gesture Recognition in Sign Language Applications Using AVL Tree and SVM”, *4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI)*, Springer, 2016, (to be published).
- Sriparna Saha, Biswarup Ganguly and Amit Konar. “Gesture Recognition from Two-Person Interactions Using Ensemble Decision Tree”, *4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI)*, Springer, 2016, (to be published).
- Monalisa Pal, Sriparna Saha and Amit Konar. “Probability Induced Distance Based Gesture Matching for Healthcare Using Microsoft’s Kinect Sensor”, *4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI)*, Springer, 2016, (to be published), Best paper award.
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- Sriparna Saha, Rimita Lahiri, Sanchita Ghosh and Amit Konar. “SOFM and TIFS Based Measurement of Correctness in Dance Postures for E-learning Applications”, *13<sup>th</sup> International India Conference (INDICON)*, IEEE, 2016.
- Sriparna Saha, Rimita Lahiri, Amit Konar, Bonny Banerjee and Atulya K. Nagar. “HMM-based Gesture Recognition System Using Kinect Sensor for Improvised Human-Computer Interaction”, *International Joint Conference on Neural Networks (IJCNN)*, IEEE, 2017, (to be published).
- Sriparna Saha, Rimita Lahiri, Amit Konar, Anna Lekova and Atulya K. Nagar. “A Novel Approach to TSK Model Based Gesture Driven Robot Movement”, *IEEE International Conference on Fuzzy Systems (FUZZ)*, IEEE, 2017, (to be published).
- Biplab Das, Debashis De, Jadav Das and Sagar Sarkar. An Efficient Design of Left Shifter In Quantum Cellular Automata, CICBA 2017
- Biplab Das, Jadav Das, Debashis De and Avijit Paul. Nano-Router Design for Nano-Communication in single layer Quantum Cellular Automata. CICBA 2017

#### Book

- S.Biswas, S.Neogy, “Secure Checkpointing Recovery in Mobile Computing”, ISBN (9783330036222), LAP LAMBERT Academic Publishing, BahnhofstraËe 28, D66111, Saarbrücken, Germany, February 2017.

#### Award

- Dr. D. De received IETE J C Bose Memorial Award 2016 (IETE, New Delhi) for best Engineering paper.

#### Invited Talk

- Dr. D. De delivered invited Talk at 5<sup>th</sup> International conference IC4N Greece, 2016

#### Sponsored Project

Principal Investigator (PI)	Title of The Project	Funding Agency	Amount	Duration
Dr. Santanu Phadikar	Internet Security Education & Awareness Programme Phase-II	MeitY	Rs. 120L	2016-2020
CSE-HOD	DST FIST	DST	Rs. 85 L	2012-2017

- Dr. M. Das Sarkar completed a Minor Project for conducting Entrepreneurship Awareness Camp (EAC) along with an Industry Visit, funded by DST-NIMAT in 2016-2017.
- Dr. Das Sarkar is currently carrying out a TEQIP sponsored R&D Major Project on “Installation of Grid connected and Off-Grid Solar Photovoltaic system and Solar Thermal System”.

### Support Staff In The Department

Ms. Chumki Das, Technical Assistant, Diploma, AMIE, M.Tech(VLSI Technology).  
Ms. Roshmi Dhar, Technical Assistant, Diplomat, AMIE.  
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, acting as placement officer.

### Department of Industrial Engineering & Management

The Department of Industrial Engineering & Management, under the School of Engineering & Technology offers M.Tech in Industrial Engineering & Management.



Department of IEM

This is a two year AICTE approved in-house degree programme with an intake capacity of 18 students. The programme is interdisciplinary in nature and prepares students to undertake multi-disciplinary assignments in corporate organizations as well as equips them for academic / teaching positions in a multi-subject environment in a contemporary educational institution. The state-of-the-art encompasses a lot of engineering fields of study such as production and product system design, manufacturing, quality engineering & management, supply chain and logistics, ergonomics, reliability studies, enterprise information solutions and industrial management. Eligibility for admission to this programme is a B.E/ B.Tech degree in any branch of engineering / technology or equivalent qualification. Candidates with valid GATE score are eligible for AICTE scholarship.

Some special features of the programme include product modelling and technopreneurship. The Industrial Engineering laboratory is located in the ground floor of the University. The laboratory currently has CNC Milling and CNC lathe machines. The department uses software like AutoCAD 2006, AutoCAD 2000i, Statistica, Matlab as well as different flavours of Linux. The laboratory is being developed by procuring equipment and software using the UGC grant.

### 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 develop 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 along with the laboratory facilities will be the future goal of the School. Post B.Sc. Integrated PhD programme in Genetics has also been started.

A *Transmission Electron Microscopy Laboratory* was set up in early 2007 which provides user facility to various sister organizations. Eventually in early 2008 a hands on training program on Prokaryotic whole cell visualization was organized with eminent microscopists from all over the globe as instructors. 108 participants from different parts of the country attended the workshop. This occasion was used as a platform to name the Center as "N. N. Dasgupta Electron Microscopy Center".

The department of Biotechnology is also involved with carrying out pilot scale trial for companies (Uranium Corporation of India Limited) in association with national grant giving agencies (BRNS, DAE). The packed bed bioreactor (IOLit) for microbe based soluble sulphate reduction is the only one of its kind in the region running continuously for more than 6 months without recharging. Cascading has been initiated for scaling up the volume handled by this setup. Replica of the design has been generated for scaling it up to 20 lit capacity.

The Alumni of the School has established an *Alumni Association* (WBUT Biotech Alumni Association, WBAA) in order to promote good interaction among them and have been organizing events successfully since 2008. Recently another now milestone has been achieved by the WBAA collaborating with the School of Biotechnology and Biological Sciences in releasing its own official magazine called "*BIOVARIANCE*".

To facilitate online learning at own time and pace, online platform with thirty modules have been developed, covering topics on Genetics, Molecular Biology & Biotechnology (<http://www.genomegyan.com>).



Department of Biotechnology

**Prof. Subrata Kumar Dey, Pro-Vice Chancellor**

Prof. Subrata Kumar Dey received his Ph.D in Zoology from University of Kalyani. He joined as an Assistant Professor & Reader of West Bengal Education Service (WBES) (1980-2005). He joined as a Reader in Presidency College (1996-2005) and as a Professor & Director, School of B.B.S in WBUT. Prof. Subrata Kumar Dey has been working in the field of Human genetics and radiation biology for past 5 years. At present he is working on the genetics of Down syndrome patients and Heavy ion induced genomic instability in mammalian cells. He has also undertaken sequencing of a gene responsible for Atrioventricular Septal Defects in Down syndrome. Research is also being carried out on APOE gene polymorphism in Alzheimer's patients and to develop specific molecular markers for monitoring onset and remission of Acute lymphoblastic leukemia. He works with a team of four scholars. He has published 70 research papers & eight students received Ph.D under his supervision. Laboratory is also engaged in the study of the biology of human cord blood stem cells. At present five student five students have been engaged in PhD work on different topics. He is also the founder of the Centre for Genetic Studies. Prof. Dey also edited four books on Down Syndrome.

**Dr. Jaya Bandyopadhyay, Assistant Professor & HoD Dept. of Biotechnology**

Dr. Bandyopadhyay joined the West Bengal University of Technology as a Lecturer in the Department of Biotechnology in 2002. She was awarded Ph.D from the Department of Zoology (School of Life Sciences), Visva Bharati University, Santiniketan, in the areas of termite ecology and biology. She also worked as a Senior Research Fellow in the fields of Environmental Toxicology at Visva-Bharati. After completion of Ph.D she executed her postdoctoral research at Hormone Research Center, Chonnam National University, South Korea (1995-1998) and Gwangju Institute of Science & Technology (GIST), South Korea (1998-2001). She joined Indian Institute of Chemical Biology (Kolkata) as a CSIR Senior Research Associate (CSIR Scientist's Pool Scheme) from 2001-2002. She was awarded the Visiting Scholar to GIST under the Brain Pool Scheme funded by the Korean Federation of Science & Technology Societies (KOFST) for 1 year (2007-2008) where she worked on the neurogenetic studies on the animal behavior using *C. elegans* as a model. She has also published around thirty research papers in peer reviewed journals. Dr. Bandyopadhyay



and her team of 8 Ph.D scholars along with several master's students are currently pursuing research in molecular and functional characterizations of oxidative stress-induced candidate genes associated with neurodegenerative diseases, like Alzheimer's disease (AD) with a view to finding new targets in the disease manifestation using neuroblastoma cell lines. She is also interested in studying the roles of microRNAs (miRNAs) in modulating the disease process. In addition she has successfully set up her worm laboratory and facilities in the Department to pursue in the fields of Molecular Aging and Development using *C. elegans* as a model organism. She has currently initiated research in studying the interaction properties of DNA with various nanotubes / nanoparticles and their effects on *C. elegans*, and further investigating the antibacterial activity of Graphene Oxide (nanoparticles) and its impact on *C. elegans*.

**Dr. Tufan Naiya, Assistant Professor**

Dr. Naiya joined the Department of Biotechnology as an Assistant Professor during 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 further worked as a Post Doctoral Fellow at the Zoological Survey of India (ZSI), Kolkata. 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 etc.

**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 kKishi 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.

### ACTIVITIES UNDERTAKEN IN THE DEPARTMENT BESIDES TEACHING

#### Publications/Journals

- Pranami Bhaumik, Mandar Bhattacharya, Priyanka Ghosh, Sujoy Ghosh, Subrata Kumar Dey. Telomere length analysis in Down syndrome birth. Mechanisms of Ageing and Development. 2017 Mar 19. pii: S0047-6374(16)30160-9. doi: 10.1016/j.mad.2017.03.006.
- Poulami Majumder, Sangh Jyoti Singh, Vineet Nair, Pranami Bhaumik, Ashutosh Mukherjee,

- Priyanka Ghosh, Mandar Bhattacharya, Sujoy Ghosh, Subrata Kumar Dey. Alliance of matrix metalloproteinase-9 (MMP-9) promoter gene polymorphism with chronic and aggressive periodontitis in Indian population. *Meta Gene*. Volume 12, June 2017, Pages 88–93.
- Mohanta, Yugal Kishore, Sujogya Kumar Panda, Kunal Biswas, Abiral Tamang, Jaya Bandyopadhyay, Debashis De, Dambarudhar Mohanta, and Akshaya Kumar Bastia. 2016. "Biogenic synthesis of silver nanoparticles from *Cassia fistula* (Linn.): in vitro assessment of their antioxidant, antimicrobial and cytotoxic activities." *IET Nanobiotechnology* " Vol. 10 (6), pp. 438- 444, ISSN : 1751-8741.
  - Sinha, Swati, Kunal Biswas, Tamoghna Purkayastha, Jaya Bandyopadhyay, Angsuman Sarkar, and Debashis De. 2016. "On the Electronic Properties of Guanine Functionalized Zigzag Single-Walled Carbon-Nanotube." *Journal of Nanoengineering and Nanomanufacturing*, 6, no. 1, 3-8.
  - Sinha, Swati, Kunal Biswas, Debashis De, and Jaya Bandyopadhyay. 2016. Implications of multi wall carbon nanotube over living system using *C. elegans* as worm model. *Materials Today: Proceedings*, 3, no. 10, 3310-3317.
  - Kunal Biswas, Swati Sinha, Siddharth Shaw, Jaya Bandyopadhyay, Debashis De. 2017. Bandgap Engineering of Graphene nanosheets upon heavily doping with silver atoms. *Material Focus* (American Scientific Publisher), 6, no. 2, 121-126.
  - 5) Sabita Singh, Kunal Biswas, Sanhita Chowdhury, Yugal Kishore Mohanta and \*Jaya Bandyopadhyay. 2017. Green route mediated synthesis of silver nanoparticles from *Aegle Marmelos* and evaluating its antimicrobial activity. *Material Focus* (American Scientific Publisher), 6, no. 3, 297-304 .
  - Kunal Biswas , Swati Sinha, Siddharth Shaw, Jaya Bandyopadhyay and Debashis De. 2017. Observation of the unconventional optoelectronic properties of silicon conjugated graphene nanosheets. *IEEE Xplore proceedings*, In press.
  - Swati Sinha, Kunal Biswas, Siddharth Shaw, Jaya Bandyopadhyay and Debashis De. 2017. Unraveling the temperature dependent elastic properties of defect induced Single Walled Carbon Nanotube. *IEEE Xplore proceedings*, In press.
  - Sandipan Chakraborty, Jaya Bandyopadhyay, Sourav Chakraborty, and Soumalee Basu. 2016. Multi-target screening mines hesperidin as a multi-potent inhibitor: Implication in Alzheimer's disease therapeutics. *European Journal of Medicinal Chemistry*. Accepted for publication.
  - Subhajit Giri, Tufan Naiya, Zaffar Eqbal, Charulata Savant Sankhla, Shyamal Kumar Das, Kunal Ray, Jharna Ray. Genetic screening of THAP1 in primary dystonia patients of India. *Neuroscience Letters* 2017: 637: 31–37 .
  - Jaya Sanyal, Shiek S. S. J. Ahmed, Hon Keung Tony Ng, Tufan Naiya, Epsita Ghosh, Tapas Kumar Banerjee, Jaya Lakshmi, Gautam Guha, Vadlamudi Raghavendra Rao. 2016. Metallomic Biomarkers in Cerebrospinal fluid and Serum in patients with Parkinson's disease in Indian population. *Sci Rep*. 6: 35097 .

### Department of Bioinformatics

MAKAUT, WB has 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).





Department of Bioinformatics

**Dr. Raja Banerjee, Associate Professor**

Dr. Banerjee, an organic chemist by training, has been working for ~22 years in the area of structural biology 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 for 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. Banerjee acted as Visiting Professor in several reputed Institutes within and outside the country (viz. University of Padova, Italy; University of Pune; IBSD, Manipur) and Visiting Scientists in several Premier Research Institutes (viz. Visiting Fellow of JNCASR, Bangalore, IISc, Bangalore, TIFR, Bangalore). He chaired the academic sessions in several International conference and delivered invited lectures in several international, national Conference/Seminar/Workshops within and outside the country. He has published number of research articles in reputed international journals with high impact factor. He is the Coordinator Bioinformatics infrastructural facility, WBUT recognized by DBT since 2008; executive committee member Indian Peptide Society since 2011 and acted as a Member, Coordination Apex Committee: Bioinformatics National Certificate Examination (BINC) (conducted by Department of BioTechnology, Govt. of India) 2009-2012.

**Mr. Subhrangshu Supakar, Project Officer**

Mr. Supakar has a Bachelor in Pharmacy (B. Pharm) from Utkal University and obtained a post Graduate Diploma in Bioinformatics from Jadavpur University. He worked on chemical characterization of a few very important medicinal plants of Orissa. Currently he is actively engaged in developing a bioinformatics software suite with a graphical interface, targeted for sequence analysis and structural biology applications. He is also working on molecular modeling of nuclear cap binding proteins such as CBP80, CBP20 and on the development of a medicinal plant database of West Bengal, with specific focus on 3D structures of active ingredients.

### **Dr. Aulie Banerjee, Project Officer**

Dr. Banerjee holds an M.Sc. in Botany and Forestry and from Vidyasagar University and a P. G. Diploma in Bioinformatics from Jadavpur University. She was a research fellow under World Wide fund for Nature, India (WWMndia). She has worked with the National Afforestation and Eco Development Board, Jadavpur University, and is Project Consultant of the Medicinal Plant Garden project under Vishwa Bharati University. Her area of interest is ethnomedicine and she is involved in the development of a medicinal plant database of West Bengal, with specific focus on 3D structures of active ingredients. She is also engaged in developing a bioinformatics software suite with a graphical interface, targeted to sequence analysis and structural biology.

### **ACTIVITIES UNDERTAKEN IN THE DEPARTMENT BESIDES TEACHING**

#### **Publications/Journals**

- "PPIMpred: A web server for high throughput screening of small molecules targeting Protein- Protein Interaction" accepted in Royal Society Open Science (2017). Accepted for publication.
- Computational design of model scaffold for anion recognition based on the 'CaNN' motif; Tridip Sheet, Suvankar Ghosh, Debnath Pal & Raja Banerjee\*, (2016) Biopolymers: Peptide Science 'Accepted Article'.
- The 'CaNN' motif: an intrinsic lover of sulfate and phosphate ions Tridip Sheet & Raja Banerjee\*, (2016) RSC Advances, 6, 54129–54141
- Genome-wide mitochondrial DNA sequence variations and lower expression of OXPHOS genes predict mitochondrial dysfunction in oral cancer tissue; Esita Chattopadhyay<sup>6</sup> & Navonil De Sarkar, Richa Singh, Anindita Ray, Roshni Roy, Ranjan Rashmi Paul, Mousumi Pal, Sandip Ghose, Subhrendu Ghosh, Debajyoti Kabiraj, Raja Banerjee and Bidyut Roy (2016) Tumor Biol. 37(9):11861-11871

### **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.

#### **Location and Infrastructure**

The School of Management is located on the second floor of the University. 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.

### Current Activities of the Management School

The activities undertaken by the School of Management to fulfil the afore-mentioned objectives can be grouped under two broad headings:

1. In-house activities which seek to promote research, train prospective researchers, and introduce high-quality academic programmes;
2. Supervisory activities which try to support undergraduate and post-graduate programmes in the affiliated colleges of the University.

### Proposed Programme

SOM is in the process of initiating a two-year postgraduate programme in Computational Finance. The Computational Finance laboratory is being developed for this purpose by procuring both hardware and appropriate software using the UGC grant. This will be a highly focused programme having a judicious admixture of quantitative techniques, financial knowledge and computational skills and will aim to fill the gap in quality manpower currently existing in the financial services industry.

### Department of Natural Science

#### **Prof. B. P. Chatterjee**, *AICTE Emeritus Professor*,

Prof. Chatterjee is an Emeritus Professor, Department of Natural Sciences, West Bengal University of Technology & Sir Asutosh Mookerjee Fellow, Indian Science Congress Association, Adjunct Professor, Yokohama City University, Yokohama, Japan. He has research specialization and expertise in Carbohydrates, Lectins, and Glycobiology, Allergy & Immunology, Biotechnology. He has achieved academic fellowships of National Academy of Medical Sciences (2014), research fellowships, Utility Service of Expertise Research Scientists" (USERS) from Department of Science & Technology, Government of India (2010-2011), Senior Scientist Platinum Jubilee Fellowship from National Academy of Sciences, India (2011-2013), Sir Asutosh Mookerjee Fellowship from Indian Science Congress Association (2014-2018); Awarded Prof. R C Mehrotra Memorial Life Time Achievement award presented by Sri Narendra Modi, Prime Minister of India in 104<sup>th</sup> Indian Science Congress at University of Tirupati (2017), "98<sup>th</sup> Indian Science Congress General President's Gold Medal", presented by Dr. Manmohon Singh, Prime Minister of India at SRM University in Chennai (2011), "Shikhashak Smarak Samman" awarded by Education Department of West Bengal Pradesh Congress (2011), "Smarak Samman" awarded for outstanding contribution in Chemistry by Howrah EtihashPranayanSamiti (2011). He has been an active member of the Institute Body and other bodies, Post Graduate Institute of Medical Education and Research, Chandigarh as Indian Science Congress Association representative from 2011-2014 and 2014-2019; Member of the Task Force Committee and Project Review Committee on Allergy, Biochemistry, Immunology, Indian Council of Medical Research, Govt. of India 2011-2014; Treasurer, Indian Science Congress Association, 2010-2011. He has guided twenty seven (27) Ph.D. students and one (1) is doing Ph.D. research at present and Examiner of Ph.D. thesis of different Indian Universities. He has published more than 149 national and international journals with a research grant from prestigious organizations like CSIR, ICMR, DST, DBT.



Department of Natural Science

**Prof. Sreeparna Banerjee, Professor**

Prof. Banerjee obtained her B. Sc. in physics from Presidency College, Calcutta., M. Sc. from Calcutta University and Ph.D University of Virginia. She has taught in Universities in India and abroad. Her current research interests include Physics of space plasmas: Molecular Dynamics and Monte Carlo simulations, charge transfer, nonlinear dynamics; Neural networks, Pattern Recognition and Soft Computing applications in Astrophysics, Meteorology and Medical Imaging; Data Mining.

**Dr. Atryee Biswas, Assistant Professor**

Dr. Biswas obtained M.Sc in Applied mathematics from Calcutta University and Ph.D. from Jadavpur University. Worked as a lecturer in Ramkrishna Sarada Mission Vivekananda Vidyabhaban before joining WBUT. Her area of research interest is quantum mechanical problems in the context of Super symmetry and PT symmetry.

### 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 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 thirty-five papers in international journals, authored eight book chapters and has one patent filed to his credit. One student has completed her Ph.D working under his joint supervision while two other students will submit their Ph.D theses. He is currently associated with three externally funded research projects. Dr Mukherjee has around twenty years of professional experience including working in software industry, teaching, training and research.

### ACTIVITIES UNDERTAKEN IN THE SCHOOL BESIDES TEACHING

#### Publications/Journals

- G Mandal, ASaroha, P P Bose, B P Chatterjee (2016). Altered glycosylation, expression of serum haptoglobin and alpha-1-antitrypsin in chronic hepatitis C, hepatitis C induced liver cirrhosis and hepatocellular carcinoma patients. *Glycoconjugate J*, 33, 209-218. IF: 1.828, Citation: 3



- P P Bose, G Mandal, D Kumar, A Duseja, B P Chatterjee (2016). Visual detection of serum asialohaptoglobin by plasmonic sandwich ELLSA- a new platform for cirrhosis diagnosis. *Analyst*, 141, 76-84. IF: 4.033, Citation: 2
- S R Chowdhury, U Ray, B P Chatterjee, S S Roy (2016). A Lectin isolated from *S. nigra* (SNA) induces apoptosis in ovarian cancer cell through Akt/ERK pathway and activating mitochondrial fission. Accepted to *Cell Death & Disease*.
- P P Bose, S Bhattacharjee, S Singha, S Mandal, G Mandal, P Gupta, B. P. Chatterjee (2016). A glucose/mannose binding lectin from litchi (*Litchi chinensis*) seed: Biochemical and biophysical characterizations. *Biochem Biophy Reports* 6, 242-252.
- S. Singha, P. P. Bose, T. Ganguly, P. T. Campana, R. Ghosh, B. P. Chatterjee. (2015). Comparison of the nature of interactions of two sialic acid specific lectins *Saraca indica* and *Sambucus nigra* with *N*-acetylneuraminic acid by spectroscopic techniques. *J. Lumin.* 160, 119-127. IF: 2.693
- P P Bose, G Mandal, U Chatterjee, M Singh, B P Chatterjee (2016). Gold nanoparticle-based novel visual detection method for detection of specific IgE for food allergy. *Analytical Methods*, 8, 3878-3884.
- G Mandal, ASaroja, P P Bose, B P Chatterjee (2016). Altered glycosylation, expression of serum haptoglobin and alpha-1-antitrypsin in chronic hepatitis C, hepatitis C induced liver cirrhosis and hepatocellular carcinoma patients. *Glycoconjugate J*, 33, 209-218. IF: 1.828, Citation: 3
- P P Bose, G Mandal, D Kumar, A Duseja, B P Chatterjee (2016). Visual detection of serum asialohaptoglobin by plasmonic sandwich ELLSA- a new platform for cirrhosis diagnosis. *Analyst*, 141, 76-84. IF: 4.033, Citation: 2
- S R Chowdhury, U Ray, B P Chatterjee, S S Roy (2016). A Lectin isolated from *S. nigra* (SNA) induces apoptosis in ovarian cancer cell through Akt/ERK pathway and activating mitochondrial fission. Accepted to *Cell Death & Disease*.
- P P Bose, S Bhattacharjee, S Singha, S Mandal, G Mandal, P Gupta, B. P. Chatterjee (2016). A glucose/mannose binding lectin from litchi (*Litchi chinensis*) seed: Biochemical and biophysical characterizations. *Biochem Biophy Reports* 6, 242-252.
- S. Singha, P. P. Bose, T. Ganguly, P. T. Campana, R. Ghosh, B. P. Chatterjee. (2015). Comparison of the nature of interactions of two sialic acid specific lectins *Saraca indica* and *Sambucus nigra* with *N*-acetylneuraminic acid by spectroscopic techniques. *J. Lumin.* 160, 119-127.
- P P Bose, G Mandal, U Chatterjee, M Singh, B P Chatterjee (2016). Gold nanoparticle-based novel visual detection method for detection of specific IgE for food allergy. *Analytical Methods*, 8, 3878-3884.
- A Survey of Prospects and Problems in Hindustani Classical Raga Identification Using Machine Learning Techniques, S. Banerjee accepted ICIC2 2016 held in February 2016 and published in Proceedings of AISC (Springer)
- Diabetic Retinopathy Related Lesions Detection and Classification Using Machine Learning Technology, R. Saha, A. Roychowdhury and S. Banerjee, L. Rutkowski et al. (Eds.): ICAISC 2016, Part II, LNAI 9693, pp. 734–745, 2016. DOI: 10.1007/978-3-319-39384-1\_65 (Springer).
- Detection of hard exudates using mean shift and normalized cut method, S. Banerjee and D. Kayal, Biocybernetics and Biomedical Engineering, 36(4), 679-685 (2016)(Elsevier)
- 2 papers in CSI transactions in ICT
- Towards an Automated Approach to the Detection of Retinal Abnormalities
- Amrita Roy Chowdhury<sup>1</sup>, Sreeparna Banerjee<sup>2</sup>, CSI transactions on ICT, Springer (2016)
- Detection of hard Exudates using Otsu segmentation, D. Kayal, S. Banerjee, CSI transactions on ICT, Springer (2016)
- Dynamic Thresholding with Tabu search for detection of Hard Exudates in Retina Image, D. Kayal, S. Banerjee, LNNS 2016.
- An approach towards Automatic Intensity Detection of Tropical Cyclone by Weight Based Unique Feature Vector, C. Kar, S. Banerjee, Proceedings IEEE ICCIC, 355-358 (2016).
- Study of complexity and allied properties of financial markets – Theoretical approaches, empirical

observations and use of the tools of non-linear dynamics - Indranil Mukherjee, Chitrakalpa Sen, Amitava Sarkar and Amal Giri. Chaos and Complexity Letters, International Journal of Dynamical Systems Research, Vol 10, Issue 1, pp 37-63, 2016

### Book Chapters

- P P Bose, U Chatterjee, B P Chatterjee (2016). Biological activity of marine sponge lectins. In Marine Glycobiology-Principles and Applications, Se-Kwon Kim (ed) Taylor and Francis.
- B P Chatterjee, P P Bose (2016) Chapter title: 'Marine carbohydrate and their applications. In Marine Glycobiology- Principles and Applications, Se-Kwon Kim(ed) Taylor and Francis.
- Developing Tailor-Made Microbial Consortium for Effluent Remediation – Shaon Ray Chaudhuri, Indranil Mukherjee, Debabrata Datta, Chaitali Chanda, Ganesh Prasath Krishnan, Swati Bhatt, Paulami Datta, Shashi Bhushan, Sourav Ghosh, Pinaki Bhattacharya, Ashoke Ranjan Thakur, Debanik Roy and Parthasarathi Barat. In “Nuclear Material Performance”, ISBN 978-953-51-2447-4. Ed. Rehab O. Abdel Rahman and Hosam El-Din Mostafa Saleh; INTECH (2016).
- Novel Microbial System Developed from Low-Level Radioactive Waste Treatment Plant for Environmental Sustenance - Shaon Ray Chaudhuri, Jaweria Sharmin, Srimoyee Banerjee, U. Jayakrishnan, Amrita Saha, Madhusmita Mishra, Madhurima Ghosh, Indranil Mukherjee, Arpita Banerjee, Kamlesh Jangid, Mathummal Sudarshan, Anindita Chakraborty, Rajib Nath, Maitreyi Banerjee, Shiv Shankar Singh, Ajoy Krishna Saha and Ashoke Ranjan Thakur. In “Management of Radioactive and Hazardous Wastes”, ISBN 978-953-51-4764-0, INTECH (2016).
- Quantitative Characterization of Sulphate Reduction Data obtained from a Biofilm based Bioreactor – Part I. Indranil Mukherjee, Amal Giri, Chitrakalpa Sen, Riya Sebait and Parthasarathi Barat in “Life Science – Recent Innovations & Research”, ISBN 978-93-84443-53-5, International Research Publication House, 2016, pp 81-102.
- Quantitative Characterization of Sulphate Reduction Data obtained from a Biofilm based Bioreactor – Part II. Indranil Mukherjee, Amal Giri and Parthasarathi Barat in “Life Science – Recent Innovations & Research”, ISBN 978-93-84443-53-5, International Research Publication House, 2016, pp 103-120.
- Successful technology transfer of waste water fed aquaculture from India to Bangladesh: a case study – Sufia Khanam, Indranil Mukherjee, Ashoke Ranjan Thakur and Shaon Ray Chaudhuri “Life Science – Recent Innovations & Research”, ISBN 978-93-84443-53-5, International Research Publication House, 2016, pp 351-368.
- Microbe-based strategy for plant nutrient management - Shaon Ray Chaudhuri, Rajib Nath, Mathummal Sudarshan, Indranil Mukherjee, Kamlesh Jangid, Sourav Ghosh, Joyeeta Chakraborty, Deepak Gola, Sonali Pardhiya, Antara Chakraborty, Abhinandan Chakraborty, Srimoyee Banerjee, Amrita Saha, Biswajit Samal, Sonakshi De, Madhusmita Mishra and Ashoke Ranjan Thakur in “Wastewater Treatment and Resource Recovery”, ISBN 978-953-51-4933-0. Editor - Robina Farooq. INTECH (2017).
- Analysis of financial markets from the perspective of complexity – Indranil Mukherjee, Chitrakalpa Sen and Amitava Sarkar; in “Proceedings of the National Seminar on Mathematical Contribution of Sir Asutosh Mukherjee: Present day trend in teaching and research in Mathematics”, (2013). – published in 2016.

### Project Grant obtained

- Understanding the dynamics of financial markets by studying the market returns using the Fokker-Planck equation and allied techniques. Funded under the scheme Innovative Programmes, IISWBM, 2016-17; Rs 4,30,000/- (As PI).

### Seminars/Conferences/Workshop/Invited Talk

- Resource person for teaching Biostatistics to RET qualified scholars as well as third semester M.Sc



# ANNUAL REPORT

## 2016 - 2017

Microbiology students in Tripura University on August 13-14, 2016.

- Was one of the resource persons in the training program on “Elementary Statistics, Quantitative and Computational Techniques” organized from 5<sup>th</sup> to 9<sup>th</sup> January, 2016 at Tripura University jointly by the Department of Microbiology and the Department of Sociology.
- I. Mukherjee delivered a talk titled “Financial Market as a Complex System” at the Mathematics Department of Tripura University on 9<sup>th</sup> January, 2016.



### Workshops on Student Programmes



Workshop on soft skill



Workshop on soft skill



# ANNUAL REPORT

## 2016-2017



Internet of things workshop



Photoshop workshop



IIT Kharagpur visit of M.Tech students



## MAKAUT ,WB Centres

### EKTA Incubation Center

EKTA Incubation Centre was set up by WBUT in 2006 with the objective of establishing an Eco-system and Infrastructure, which facilitates start-up companies and entrepreneurs in their efforts to transform laboratory scale technologies into commercial ventures. Incubates and entrepreneurs are provided with office space, broad band facilities, laboratory facilities where required, meeting rooms, document processing facility etc at a concessional rate. Entrepreneurs are made familiar with the laboratory scale technology already developed by close interaction with the research personnel. They receive further guidance from mentors from industries in specific disciplines so that they remain in the right path to ensure customer satisfaction and prepare business plan accordingly. Seed capital is tapped from several alternative sources including those from angel investors. When a product or a process is accepted in the market, entrepreneurs are helped to apply and obtain venture capital from well known Government and non-Government al sources.

Presently the center is located in Sector V in Salt Lake occupying about 3000 sq ft area. Centre is within close proximity of the City Airport. The address is AQ 13/1 Salt lake City, Sector – V Kolkata – 700 091. The website address is <http://www.technologyembryo.com>

EKTA has enrolled itself as a member of Asia Pacific Incubators Network (APIN) in August 2009 and already participated in the global conference organized by APIN at Coimbatore. EKTA is also a member of ISBA - an organization where all the leading incubators of the country are members and its members meet at least once in a year for discussing common challenges and opportunities and how they can be achieved.

WBUT has taken possession of a building of 15, 000 sq. ft on the 3<sup>rd</sup> of August'2009. where all the necessary infrastructure for EKTA as incubator, laboratory, Space for incubates and entrepreneurs with prototypes and pilot plants shall be located. Such facility will span several disciplines such as Information Technology inclusive of Embedded Design, Open Source based Application Software, Biotechnology inclusive of Bioinformatics, Plant Tissue Culture, Floriculture, Medicinal Plants, Diagnostic Applications of PCR, Food Processing technology for textile processing using natural dyes, Use of Enzymes in Leather Processing, Silk Processing. Infrastructure in other areas such as Product Design, Mechatronics, Animation Engineering, Graphic Design, Instrument Development Robotics, NDT are also under consideration. Use of Solar Energy is planned for support to normal power supply to the Centre.

#### Objectives of EKTA Incubation Centre :

- Creation of Technology Based incubates on continuous basis.
- Help to create value added jobs and services.
- Fostering the entrepreneurial spirit.
- Create Awareness about Technology Incubation and Commercialization of R & D products and processes.
- Developing tools for Technology Transfer.
- Promote small & medium industries.
- Assistance to existing incubatees by way of specialized services e.g patenting, "Copyright" arrangement of venture capital, helping towards marketing of products & processes.

#### Broad Nature of Activities:

- Provide Incubation Support to In House Incubatees.
- To Develop Virtual Incubation from Students, Research scholars, Faculties, Employees as well as Alumnus of colleges, Affiliated with MAKAUT who will be associated with Ekta-TBI as Members.

- To Provide Recommendation Certificate to Prospective Startups for Startup India Initiative of Govt of India.
- To Organize Awareness Camps for Startups.
- To Provide IPR Related Information & Support to Prospective Startups.
- Mentor Support.
- Grant-in-aid from Ministry of Micro , Small & Medium scale Enterprises(MSME) Govt. of India.
- Soft loan from Technology Development Board (TDB), Govt. of India.
- Bio tech Lab Facilities sponsored by NSTEDB Grant.

**Contact Address :**

Mr. Alok Ray, Member Secretary & Director, EKTA Incubation Centre

Tel : (033) 2367 3978/3949/ 3843, Mobile : +919432014451

E-mail : [info@technologyembryo.com](mailto:info@technologyembryo.com)

**N N Dasgupta Electron Microscopy Centre**

This center was established in early 2007 after the reinstallation of the JEM 100 S (Jeol). It was a gift received in 2006 from the Tata Institute of Fundamental Research, Mumbai. It started as teaching facility for hands on training on prokaryotic whole cell visualization for in-house as well as external students. Gradually it was routinely used for research work involving metal microbe interaction. This resource was extended further for nanobiotechnology as well as material science related studies. Currently it is also operating as a user facility (free of cost) for other sister organizations. This center along with the Departmental Microbiological laboratory provides facility for training as well as research on microbial identification. This Transmission Electron Microscopy has been incorporated as a regular practical course for the following in house streams:

1. M. Tech. Biotechnology
2. M. Tech. Bioinformatics
3. Post BSc Integrated PhD in Microbiology
4. Post BSc Integrated PhD in Molecular Biology
5. Post BSc Integrated PhD in Genetics

Under the umbrella of this center an international workshop on "Identification of Plankton: an indicator of water quality" was carried out with participants from EPRC (Bangladesh).

This center has to its credit the organization of the largest hands-on workshop of this University with 108 participants from different parts of the country. In January 2008, a hands on training program on whole cell (prokaryotic) transmission electron microscopy was organized with eminent microscopists from all over the globe as instructors. This occasion was used as a platform to name the Center as "N N Dasgupta Electron Microscopy Center".

The Electron Microscopy based research work carried out involves:

1. Visualization of the ultrastructure of the microbes
2. Determination of the cellular dimensions.
3. Detection and measurement of the nanoparticles generated by biological as well as chemical means.
4. Localization of the intracellular metal deposits in the microbial cells

The microbial biotechnology group of the department have been entrusted with maintenance and handling of the day to day activity of the center.

**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. Till date, more than 600 patients have been diagnosed for various types of congenital disorders. The following tests are performed in the Centre:

1. Chromosome Analysis & Karyotyping
2. Cancer Cytogenetics Analysis
3. PCR based DNA diagnosis of chromosomal disorders:

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.

### Children Day-Care Centre

The University Day-care Centre provides an opportunity for University staff to avail of child care facilities at their place of work. The Centre encourages parents to remain involved in their children's life even during their working hours. The children learn to interact with their own peer group and also take part in various developmental activities. The Centre also provides older children an opportunity to be self-reliant.

The Center has been designed keeping in mind special safety needs of young children. In accordance, the following safety measures have been adopted:

1. Separate space allocated for activities, rest and meals
2. The Center is away from hazards such as staircase, heavy foot-traffic areas and general toilets
3. The Center is self-contained with its own toilet facilities for the children -
4. All electrical outlets are located beyond the reach of children
5. First-aid supplies

The centre presently has a supervisor Ms. Rupa Dey and is ready with a capacity of 5 children ranging from 1.5 years to 12 years.

### 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 in association with the AIU, New Delhi. The University got the runner up trophy of Inter University Rowing Championship, which was organized by the AIU, New Delhi.





*Annual sports in progress*

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*



*MAKAUT,WB won Silver & Bronze at the National Rowing Championship*

## Gymnasium

At the ground floor of the University a gymnasium has been functioning at a modest level. It has the necessary workout instruments including the Multigym, Treadmills, Stationary Bike, Body Rail, Weights, Twister, etc. It was a shower closet at one corner. Time allotment has been done for the users. It is open from 8AM to 8PM.



### Cultural and Social Activities

#### Language Day Celebration

Cultural activities form an integral part of MAKAUT,WB life. Faculty members, students and all the administrative staffs participate spontaneously in the cultural programme. Musical programmes, dance dramas, International Mother Language Day celebration are regular features in the cultural life of the University.



Celebration of International Mother Language Day



### National Service Scheme

#### NSS Report

Dr. Md. Aftabuddin is acting as NSS Coordinator of MAKAUT, WB. In 2016 sixty three colleges affiliated to MAKAUT, WB have 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. Among the 63 Programme Officers 28 have been trained at TORC, Ram Krishna Mission.

Events	Count
Health Camps organised	18
Candidates trained in Disaster Management Camps	18
Sapling Venues	50
Saplings Planted	1855
Pulse Polio Vaccinations	118
Blood donation Camps	25
Blood Donors donated	2606
Candidates trained for Self Defence	45
Awareness camps arranged	82



*Diabetes awareness rally in progress*

**The following Villages/Slum has been adopted:**

- Arrah (District - Bardhaman)
- Bamunara (District - Bardhaman)
- Dashirbad
- Gosaipur, Bishnupur, Dist-Bankura



- Hujugpara, Old Court HSCL Coloney, Durgapur-3
- Kuchidanga, Mankar Gram Panchayat (opposite to Mankar College)
- Mankundu Slum
- Nandigram
- Palshdiha, Chaasi Para, Durgapur-08
- Saibona
- Suryapur
- Tildanga, Po - Budbud, Galsi-1 Block

### Objectives of NSS

NSS aims at developing the following qualities/ competencies among the volunteers:

- ◆ To understand the community in which the NSS volunteers work and to understand themselves in relation to their community
- ◆ To identify the needs and problems of the community and involve themselves in problem-solving exercise
- ◆ To develop among themselves a sense of social and civic responsibility
- ◆ To utilize their knowledge in finding practical solutions to individual and community problems
- ◆ To gain skills in mobilizing community participation
- ◆ To acquire leadership qualities and democratic values
- ◆ To develop capacity to meet emergencies and natural disasters
- ◆ To practice national integration and social harmony



*Blood donation in progress*

### Institution Level

The unit at college level is the grass-root unit in NSS. The organisation keeps contact with the community, administration, student youth and teaching faculty through this unit only. Therefore, the organisation and management of NSS unit are of vital significance.



Anti mosquito drive

### **NSS Unit**

An institution will be allotted NSS units according to the strength of students. The number of units will be allotted by the Programme Coordinator in consultation with NSS Regional Directorate and State NSS Officer considering the demands of the institution. It is expected that the institution will provide necessary facilities for the successful running of the NSS unit because it is a part of the institution i.e. college or school.

The strength of a unit will be 100 NSS volunteers normally. The strength of the NSS unit can be extended up to 120 volunteers in exceptional cases where second unit cannot be raised due to constraints. It is always preferable that a separate unit is started instead of enrolling more NSS volunteers.

In exceptional cases where the total strength of students enrolled is very small, a smaller NSS unit can be started with the strength of 75 NSS volunteers.

### **Enrolment of NSS Volunteers**

- ◆ At college level the NSS volunteers will be enrolled from the first and second year degree-class students. Preference should be given to the students who have worked as NSS volunteers at +2 level also.
- ◆ Students belonging to minority communities, scheduled castes and scheduled tribes should be encouraged to participate in NSS. They should be given due representation where more students desire to join NSS.
- ◆ In co-educational colleges the girls should be motivated to join NSS.
- ◆ The students from foreign countries studying in Indian universities should also be encouraged to join NSS so that they may share the experiences of national reconstruction and community work.



- ◆ NCC cadets will not be allowed to join NSS. Similarly NSS volunteers will not participate in NCC or any other youth organisation as long as they are in NSS. Same restriction will apply to the NSS Programme Officers also.



*Plantation programme*

### Programme Officers

- ◆ One Programme Officer will be in-charge of one unit only.
- ◆ Only those belonging to the teaching faculty will be considered for appointment as Programme Officer.
- ◆ Programme Officer will be responsible for the organisation of NSS unit, implementation of NSS programme under the supervision and direction of Principal of the college or head of the institution.
- ◆ The Programme Officer will be responsible to carry out the instructions issued by the Programme Coordinator of the University, NSS Regional Directorate and State NSS Officer for the implementation of NSS activities as per the NSS Manual, programme guidelines and administrative and policy directives.
- ◆ There shall not be any clash between the instructions issued by the NSS Regional Directorate or State NSS Officer or Programme Coordinator as these instructions are to be based on NSS Manual/Programme guidelines or administrative or policy directives issued by the Government of India.
- ◆ At college level the NSS volunteers will be enrolled from the first and second year degree-class students. Preference should be given to the students who have worked as NSS volunteers at +2 level also.
- ◆ Students belonging to minority communities, scheduled castes and scheduled tribes should be encouraged to participate in NSS. They should be given due representation where more students desire to join NSS.
- ◆ In co-educational colleges the girls should be motivated to join NSS.
- ◆ The students from foreign countries studying in Indian universities should also be encouraged to join NSS so that they may share the experiences of national reconstruction and community work.
- ◆ NCC cadets will not be allowed to join NSS. Similarly NSS volunteers will not participate in NCC or any other youth organisation as long as they are in NSS. Same restriction will apply to the NSS Programme Officers also.



Health Check up Camp awareness

### Appointment, Duties and Functions

- ◆ The Programme Officer is expected to motivate student youth to understand the values and philosophy of NSS. The overall functions of Programme Officer is to help the students to plan, implement, and evaluate the activities of NSS under his/her charge and give proper guidance and directions to the student volunteers.
- ◆ To discharge his/her obligations under NSS Programme the Programme Officer plays the role of an organiser, an educator, a coordinator, a supervisor, an administrator, and public relation officer to improve the quality and magnitude of NSS programme in his/her institution. His/her functions can be stated as under:-

#### a) As an Organizer

- i) To interpret the scheme to the students and other members of the college community and create awareness about the scheme
- ii) To Motivate, recruit and select student for NSS work
- iii) To enlist cooperation and coordination of community agencies, government departments and non-governmental agencies
- iv) To select service projects on the basis of utility an feasibility

#### b) As an Educator

- i) To prepare orientation programme for NSS volunteers, explain them about the concept of social service, and teach them methods and skills required for achieving the objectives of the scheme
- ii) To promote community education through meetings, talks, news bulletins discussions etc.
- iii) To help in formulating NSS programmes which will have direct relationship with the academic curricula



### c) As a Coordinator

- To coordinate NSS activities in accordance with the students ability and community demands.
- To coordinate internal resources available in the form of teaching expertise of teachers for enhancing the knowledge and skills of the students in implementation of the scheme
- To coordinate various external resources available in the forms of government services; welfare agencies and voluntary bodies for the success of the NSS programme.

### d) As a Supervisor

- To assist students to learn how to do their jobs. His/her supervisory and consultative skills should enable students to set realistic goals and see problems as challenge and take appropriate steps to solve them
- To assist in evaluation and follow-up work

### e) As an Administrator

- To keep the Principal, College Advisory Committee and the Programme Coordinator of the University informed of the activities of the unit
- To run day-to-day administration of the programme
- To attend correspondence regularly
- To maintain record of students participation and activities undertaken
- To prepare progress report periodically for submission to college/school and university
- To keep accounts and stock in the prescribed forms
- To prepare annual calendar of activities to be undertaken

### List of Colleges affiliated to MAKAUT, WB having NSS Unit

Sr.	Name of College	Code
1	Jalpaiguri Government Engineering College	101
2	Kalyani Government Engineering College	102
3	Haldia Institute of Technology	103
4	Institute of Engineering & Management	104
5	Bankura Unnayani Institute of Engineering	105
6	College of Engineering and Management, Kolaghat	107
7	Asansol Engineering College	108
8	Netaji Subhash Engineering College	109
9	Govt. College of Engineering & Textile Technology, Serampore	110
10	Govt. College of Engineering & Textile Technology, Berhampore	111
11	Government College of Engineering and Leather Technology	112
12	Govt. College Of Engineering & Ceramic Technology	113
13	B. P. Poddar Institute of Management & Technology	115
14	MCKV Institute of Engineering	116
15	RCC Institute of Information Technology	117

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16	Siliguri Institute of Technology	119
17	Dr. B. C. Roy Engineering College, Durgapur	120
18	Bengal Institute of Technology	121
19	St. Thomas College of Engineering and Technology	122
20	JIS College of Engineering	123
21	Gupta College of Technological Sciences	124
22	Bengal College of Engineering and Technology	125
23	Heritage Institute of Technology	126
24	Narula Institute of Technology	127
25	Techno India, Salt Lake	130
26	George College	133
27	Meghnad Saha Institute of Technology	142
28	Guru Nanak Institute of Technology	143
29	Future Institute of Engineering and Management	148
30	NSHM College of Management & Technology, Durgapur	149
31	Durgapur Institute of Advanced Technology & Management	155
32	Mallabhum Institute of Technology	158
33	Bengal Institute of Technology & Management	163
34	Calcutta Institute of Engineering and Management	165
35	Saroj Mohan Institute of Technology	168
36	Academy of Technology	169
37	Hooghly Engineering & Technology College	176
38	Techno India College of Technology	187
39	Dream Institute of Technology	209
40	Techno India, Kolkata	226
41	Camellia Institute of Technology	230
42	NSHM College of Management & Technology, Kolkata	234
43	Camellia School of Engineering & Technology	238
44	Swami Vivekananda Institute of Science & Technology	241
45	Techno India – Banipur	244
46	Supreme Knowledge Foundation Group of Institutions	253
47	Dr. Sudhir Chandra Sur Degree Engineering College	255
48	Camellia Institute of Technology & Management	257
49	Global Institute of Management and Technology	259
50	Regent Education & Research Foundation Group of Institute	263
51	Modern Institute of Engineering & Technology	269
52	Sabita Devi Education Trust – Brainware Group of Institutions	270
53	Camellia Institute of Engineering & Technology	271
54	NSHM Knowledge Campus, Durgapur-Group of Institutions	273



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55	Budge Budge Institute of Technology	276
56	Gargi Memorial Institute of Technology	281
57	St. Mary's Technical Campus Kolkata	286
58	ILEAD Institute of Leadership Entrepreneurship & Development	289
59	B. P. Poddar Institute of Management & Technology	301
60	Techno India	309
61	Batanagar Institute of Engineering, Management and Science	332
62	Siliguri Institute of Technology	334
63	Future Institute of Technology	342

### Remedial Classes

Remedial Coaching Classes for SC, ST, Minority and OBC (Non- creamy layer) category students have been organised at North Bengal and Durgapur zone.



*Book opening ceremony at Industry Academia Conclave*

## 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

Hon'ble Governor Shri Keshari Nath Tripathy - Chairman
Vice Chancellor, MAKAUT, WB Prof. Subrata Kumar Dey - Vice-Chairman
Pro Vice-Chancellor, MAKAUT, WB - Member
Secretary, Higher Education Dept., Govt. of WB or his nominee - Member
Secretary, Finance Dept., Govt. of WB or his nominee - Member
Chairman W.B. State Council of H E nominee Sri Arijit C. Majumdar - Member
President, W.B. Council of Higher Secondary Education - Member
President, W.B. Board of Madrasa Education Board - Member
President, W.B. Board of Secondary Education - Member
Director, Indian Inst. Of Social Welfare and Business Mgmt. or his nominee -Member
Member UGC Prof.(Dr) D. Narasimha Reddy - Member
Adviser-I, AICTE Prof. S. G. Bhirud - Member
Director of Technical Education Dr. Sajal Dasgupta - Member
Chairman of the Fee Structure Committee nominee - Member
Directors of the University - Members
Dr. Indranil Mukherjee, Asso. Prof. Natural Sc., MAKAUT, WB - Member
Dr. Debashis De, Asso. Prof. Dept. of CSE, MAKAUT, WB - Member
Dr. Jaya Bandyopadhyay, Asst. Prof. Dept. of Biotech, MAKAUT, WB - Member
Prof. K. Chakraborty, Principal Govt. College of Engineering, Kalyani - Member
Prof. Saikat Maitra, Principal Govt. College of Engg. & Ceramic Tech. - Member
Dr. Alok Kr. Ghosh, Principal, Future Inst. of Engg. & Mgmt. - Member
Dr. Anjan Biswas, Asso. Prof. Govt. College of Engg. & Leather Tech. - Member
Dr. Santanu Das, Prof. Govt. Engg. College, Kalyani - Member



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Dr. Subhashis Majumder, Prof. CSE, Hertitage Inst. Of Tech.	-	Member
Sri Sukalyan Goswami, Prof. Inst. of Engg & Mgmt.	-	Member
Sri Soumitra Sasmal, Asst. Prof., Techno India, Salt Lake	-	Member
Prof. Kusum Sudhakar Reddy, HoD Dept. of Civil Engg., IIT KGP.	-	Member
Prof. Gairik Das, HoD – MDP and Business Projects, IISWBM, Kolkata	-	Member
Sri Kallol Dutta, Ex-Chairman & Managing Director, Andrew Yule & Company Ltd-		Member
Prof. Abhijit Roy, Dept. of Physics, IEST, Shibpur, Howrah	-	Member
Prof. Subhrangshu Sekhar Chatterji, Ex Vice-Chancellor, Cooch Behar Panchanan Barma University		Member
Dr. Syed Rafikul Islam, Registrar, MAKAUT,WB	-	Secretary

### The Executive Council

Vice Chancellor, MAKAUT,WB Prof. Subrata Kumar Dey	-	Vice-Chairman
Pro Vice-Chancellor, MAKAUT,WB	-	Member
Secretary, Higher Education Dept., Govt. of WB or his nominee	-	Member
Secretary, Finance Dept., Govt. of WB or his nominee	-	Member
Director of Technical Education Dr. Sajal Dasgupta	-	Member
Chairman, WB State Council of Higher Education or his nominee	-	Member
Directors of the University	-	Members
Dr. Indranil Mukherjee, Asso. Prof. Natural Sc., MAKAUT,WB	-	Member
Dr. Debashis De, Asso. Prof. Dept. of CSE, MAKAUT,WB	-	Member
Dr. Jaya Bandyopadhyay, Asst. Prof. Dept. of Biotech, MAKAUT,WB	-	Member
Prof. K. Chakraborty Principal Govt. College of Engineering, Kalyani	-	Member
Prof. Saikat Maitra, Principal Govt. College of Engg. & Ceramic Tech.	-	Member
Dr. Alok Kr. Ghosh, Principal, Future Inst. of Engg. & Mgmt.	-	Member
Dr. Anjan Biswas, Asso. Prof. Govt. College of Engg. & Leather Tech.	-	Member
Dr. Santanu Das, Prof. Kalyani Govt. Engg. College	-	Member
Dr. Subhashis Majumder Prof. Hertitage Inst. of Tech.	-	Member
Sri Sukalyan Goswami, Prof. Inst. of Engg & Mgmt.	-	Member
Sri Soumitra Sasmal, Asst. Prof Techno India, Salt Lake	-	Member
Prof. Kusum Sudhakar Reddy, HoD Dept. of Civil Engg., IIT KGP	-	Member
Prof. Gairik Das, HoD – MPD and Business Projects, IISWBM, Kolkata	-	Member
Sri Kallol Dutta, Ex-Chairman & Managing Director, Andrew Yule & Company	-	Member
Prof. Abhijit Roy, Dept. of Physics, IEST, Shibpur, Howrah	-	Member
Shri Asish Kar, Retired Executive, Andrew Yule & Company Ltd.	-	Member
Dr. Syed Rafikul Islam, Registrar, MAKAUT,WB	-	Secretary

### Administrative Officers

Chancellor	His Excellency Sri K. N. Tripathi, Hon'ble Governor, West Bengal
Vice Chancellor	Prof. Saikat Maitra
Pro-Vice Chancellor	Prof. Subrata Kumar Dey
Registrar	Dr. Syed Rafikul Islam
Finance Officer	Dr. Atri Bhowmik
Controller of Examinations(Actg.)	Dr. Indranil Mukherjee
Inspector of Colleges	Dr. Swapan Maity
Information Scientist	Dr. Md. Aftabuddin
Assistant Librarian	Ms. Najmun Nessa



Officers of the University

### Other Officers & Engineers (contractual)

Director, EKTA Incubation Center	Mr. Alok Roy
Medical Officer	Dr. S. K. Bhattacharya
Medical Officer	Dr. Mrs. P. Bhattacharya
Medical Officer	Dr. A. K. Mandal
Civil Engineer	Mr. Debasis Basu
Electrical Engineer	Mr. Ashis Kumar Chakraborty





Engineering section

### Administrative Staffs

Employee Name	Designation
Anil Prasad	P.A to VC
Chumki Das	Technical Assistant
Mithun Ghosh	Technical Assistant
Pritimoy Sanyal	Technical Assistant
Rashmi Das	Technical Assistant
Shubhashis Sengupta	Technical Assistant
Sumana Chakraborty (GHOSH)	Technical Assistant
Ashis Sarkar	Sr. Assistant
Chhabi Roy Chowdhury	Sr. Assistant
Kaushik Ghosh	Sr. Assistant
Pradyut Kar	Sr. Assistant
Sudhansu Chakraborty	Sr. Assistant
Sujata Ghosh	Sr. Assistant
Ajoy Bhattacharjee	Assistant
Amar Kanti Ghosh	Assistant
Ashim Kumar Gangopadhyay	Assistant
Ashis Nandi	Assistant
Dibyendu Dutta	Assistant
Jayanta Das	Assistant

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Khorsed Munshe	Assistant
Ranjan Mondal	Assistant
Rathindra Nath Bhattacharya	Assistant
Sagar Ratan Basu	Assistant
Shamik Ghosh	Assistant
Som Mauli Adhikary	Assistant
Sujit Kumar Saha	Assistant
Sukanya Gupta	Assistant
Debasish Sarkar	Jr. Assistant
Pritha Ghosh	Jr. Assistant
Soumendu Ghosh	Jr. Assistant
Bratati Ghosh	Jr. 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
Amit Paul	Store Assistant

### Contractual & Daily Wage Staffs

Amlan Chakraborty	Manik Chandra Das
Anima Halder	Nakul Paswan
Ashim Chakraborty	Radheshyam Das
Ashok Das	Rupa Dey
Basanta Kr. Shit	Shyamal Mirdha
Bhola Ghosh	Sukumar Maiti
Binay Bhunia	Supratim Das
Bubai Paul	Surajit Debnath
Harekrishna Karjee	Ujjal Kansa Banik
Abhijit Bhattacharjee	Pritam Chakraborty
Amar Nath Ghosh	Rajat Chatterjee
Arup Roy	Ramkrishna Nath
Avijit Pathak	Sadhan Mondal



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Bablu Banick	Samar Naskar
Bamdev Jash	Samir Das
Biswajit Das	Sanat Bose
Debasish Roy	Sanjoy Dutta
Dinesh Kr. Shaw	Saroj Das
Dipanjana Dey	Sujit Kumar Roy
Goutam Deb	Sujoy Mukhopadhyay
Mahesh Prasad Gupta	Suman Sen
Manik Sardar	Susanta Chakraborty
Mantu Ray	Swapan Lal Chatterjee
Mridul Adhikary	Swarup Pramanick
Palash Dutta	

### Ph.D. Enrolled/Registered Student List

SL	Name	SUBJECT	Supervisor/Joint Supervisor/Associate Supervisor
1	Kunal Biswas	Biotechnology	Dr. Debashis De, Dr. Jaya Bandyopadhyay
2	Deeprashree Guha Roy	CSE	Dr. Debashis De
3	Mihir Sing	CSE	Prof. Phalguni Gupta
4	Jadav Chandra Das	CSE	Dr. Debashis De
5	Niladri Sekhar Datta	CSE	Dr. Koushik Majumder
6	Ramesh Saha	CSE	Dr. Suparna Biswas
7	Joyeeta Chakraborty	Biotechnology	Dr. Jaya Bandyopadhyay
8	Tanmoy Jana	Bioinformatics	Dr. Raja Banerjee, Dr. Sudipto Saha
9	Simpay Sanyal	EE	Dr. Madhumita Das Sarkar, Prof. K. Chakraborty
10	Sadip Midya	CSE	Dr. Koushik Majumder, Dr. Santanu Phadikar
11	Asmita Roy	CSE	Dr. Koushik Majumder, Dr. Santanu Phadikar
12	Ishita Bhakta	CSE	Dr. Santanu Phadikar, Dr. Koushik Majumder
13	Priti Deb	CSE	Dr. Debashis De
14	Suman Mitra	CSE	Prof. Sriyankar Acharyya
15	Samarjit Roy	CSE	Dr. Debashis De
16	Moumita Maity	CSE	Prof. Sriyankar Acharyya
17	Koushik Karmakar	CSE	Dr. Suparna Biswas, Prof. Sarnistha Neogy
18	Biswajit Jana	CSE	Prof. Sriyankar Acharyya
19	Chinmoy Kar	CSE	Prof. S. Banerjee
20	Plaban Choudhuri	Biotechnology	Dr. Riddhi Goswami

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21	Sampat Kumar Kundu	Pharmaceutical Technology	Dr. Abhijit Kundu, Dr. Sumana Chatterjee
22	Soumyajit Ghorai	Chemistry	Dr. Debapriya De, Dr. Madhusudan Roy
23	Tanvi Mustafa	Management	Dr. Shamima Haque
24	Rezina Banerjee	Management	Dr. Shamima Haque
25	Debojyoti Dev	Management	Dr. P. K. Roy Burman
26	Aparna Dan	Physics	Dr. Atanu Nag
27	Pankajpal	IT	Dr. Siddhartha Bhattacharya
28	Shubhendu Banerjee	CSE	Dr. Rajib Bag, Dr. Atanu Das
29	Soumitra De	CSE	Dr. Jaydev Mishra
30	Sirshendu Hore	CSE	Dr. Tanmoy Bhattacharya
31	Kaushik Banerjee	CSE	Dr. Rajib Ganguly, Dr. Probal Sengupta
32	Aritra Bondyopadhyay	CSE	Dr. Rajib Bag, Dr. Atanu Das
33	Mahua Nandy (PAL)	CSE	Dr. Minakshi Banerjee
34	Saswati Sarkar	CSE	Dr. Anirban Kundu
35	Arijit Chakraborty	CSE	Dr. Anindya Jyoti Pal
36	Arnab Kole	CSE	Dr. Anindya Jyoti Pal
37	Sougata Das	CSE	Dr. Manish Chatterjee
38	Tapan Kumar Hazra	CSE	Dr. Ajoy K. Chakraborty
39	Kamarujjaman	CSE	Dr. Mausami Maitra, Dr. Susanta Chakraborty
40	Sandip Das	ECE	Dr. Soumitra Kr. Mandal
41	Tuhin Subhra Sarkar	ECE	Dr. Himadri Sekhar Dutta, Dr. Badal Chakraborty
42	Partha Mitra	ECE	Dr. Jaydeb Bhaumik
43	Soumali Sikder Sanyal	ECE	Dr. Shila Ghosh
44	Swagata Roy Chatterjee	ECE	Dr. Mohuya Chakraborty
45	Aniruddha Ghosh	ECE	Dr. Amitabha Sinha
46	Soumyendu Bhattacharjee	ECE	Dr. Biswarup Neogi
47	Anurima Majumdar	ECE	Dr. Annapurna Das , Dr. Sisir K. Das
48	Antara Ghosal	ECE	Dr. Sisir K. Das, Dr. Annapurna Das
49	Avali Ghosh	ECE	Dr. Sisir K. Das
50	Avijit Kundu	ECE	Dr. Matreyi Ray(Kanjilal), Dr. Moumita Mukherjee
51	Aritra De	ECE	Prof. Tirthankar Datta
52	Krishanu Kundu	ECE	Dr. Narendra Nath Pathak
53	Mousam Chatterjee	ECE	Dr. Arnab Nandi, Dr. Banani Basu
54	Swati Barui	ECE	Dr. Biswarup Neogi
55	Subhradip Das	ECE	Prof. Sudakshina Kundu



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56	Rajesh Dey	ECE	Dr. Achintya Das
57	Magnanil Goswami	ECE	Prof. Sudakshina Kundu
58	Surama Biswas	CSE	Prof. Sriyankar Acharyya
59	Moutushi Singh	CSE	Dr. Koushik Majumder, Dr. Subir Kr. Sarkar
60	Satrughna Singha	CSE	Prof. Amitabha Sinha
61	Amrita Roy Chowdhury	CSE	Dr. Sreeparna Banerjee
62	Anindita Ray	CSE	Dr. Debashis De
63	Suman Paul	CSE	Molay Kr. Pandit
64	Debasmita Mukherjee	CSE	Dr. S. Acharyya
65	Sudip Kundu	CSE	Dr. S. Acharyya
66	Diptoneel Kayal	CSE	Dr. Sreeparna Banerjee
67	Anwesha Mukherjee	CSE	Dr. Debashis De
68	Biswajit Mondal	CSE	Dr. Chandan Konar
69	Debarka Mukhopadhyay	CSE	Dr. Paramartha Dutta
70	Sandeep Bhowmik	CSE	Dr. S. Acharyya
71	Parth Pratim Das	CSE	Dr. S. Acharyya
72	Anindya Ch. Majumdar	Management	Dr. Swapan Kr. Banerjee
73	Uttiya Kar	Management	Dr. Mrinal Kanti Das
74	Nibir Khawash	Management	Dr. Arup Kr. Bakshi
75	Madhabi Guha	Management	Dr. Tania Shaw
76	Sritama Dey Saha	Management	Dr. Tania Shaw
77	Debasri Dey	Management	Dr. Dipankar Sinha
78	Jaydeep H Goswami	Management	Dr. Arunabha Narayan Mukherjee
79	Sudip Kundu	Management	Dr. Sougata Banerjee, Dr. Gopal Das
80	Jhilam Rudra De	Management	Dr. Arunabha Narayan Mukherjee
81	Aparajita Roy	Management	Dr. Shantanu Majumder
82	Archita Banerjee	Management	Dr. Shantanu Majumder
83	Moumita Saha	Management	Dr. T. R. Saha
84	Sujata Gupta	Management	Dr. Subrata Bhaduri
85	Debashis Chaudhuri	Management	Dr. Shantanu Chakraborty
86	Sanghita Roy	Management	Dr. Indrajit Sinha
87	Soumya Mukherjee	Management	Dr. Mrinal Kanti Das
88	Goutam Daw	Management	Dr. Atas Kr. Banerjee, Dr. Manojit Chattopadhyay
89	Sanchari Bhattacharjee	Management	Dr. Niloy Sarkar
90	Ashutosh Kar	Management	Dr. Dipankar Sinha

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91	Arindam Chatterjee	Management	Dr. Sreeparna Guha
92	Arindam De	Management	Dr. Diptendu Simlai
93	Sandip Nandi	Management	Dr. T. R. Saha
94	Snigdha Basu	Management	Dr. T. R. Saha
95	Surajit Das	Management	Dr. T. R. Saha
96	Meghdoot Ghosh	Management	Dr. Diptendu Simlai
97	Sandip Kr. Ghosh	Management	Dr. Sandeep Raychaudhuri
98	Nidhi Singh	Management	Dr. Malini Majumdar, Dr. Soma Bose Biswas
99	Dibyendu Nath Chattaraj	Management	Dr. Sujit Mukherjee
100	Reeti Debnath	Management	Dr. Sumati Ray
101	Mousam Ghosh	EE	Dr. Pradip Kr. Saha, Dr. Goutam Kr. Panda
102	Suman Ghosh	EE	Dr. Pradip Kr. Saha, Dr. Goutam Kr. Panda
103	Abhijit Patra	EE	Dr. Krishnendu Chakraborty
104	Soumyajit Goswami	EE	Dr. Arghya Sarkar
105	Sourav Paul	EE	Dr. Provas Kr. Roy
106	Sneha Sultana	EE	Dr. Provas Kr. Roy
107	Sk. Mafizul Islam	EE	Dr. J. Jhampari
108	Surajit Bagchi	AEIE	Dr. Madhurima Chattopadhyay, Dr. S. Sengupta
109	Bansari Deb	AEIE	Dr. Joyanta Kr. Roy
110	Animesh Bhattacharya	AEIE	Dr. Amal Kr. Ghosh
111	Subhendu Saha	Civil Engineering	Dr. S. N. Mandal
112	Kebal Kabiraj	Civil Engineering	Dr. Utpal Kr. Mandal
113	Joydeep Bhattacharya	Civil Engineering	Dr. S. N. Mandal
114	Utpal Sarkar	Mathematics	Dr. A. K. Jalan
115	Prasun Kr Santra	Mathematics	Dr. G. S. Mahapatra
116	Goutam Mandal	Mathematics	Dr. Satyabrata Pal
117	Anup Kumar Thander	Mathematics	Dr. Sucharita Bhattacharyya
118	Soumya Chatterjee	Physics	Dr. Indranil Mukherjee
119	Anirban Dutta	Textile Technology	Dr. Biswapati Chatterjee
120	Chumki Sinha	Chemistry	Dr. S. N. Mandal
121	Joyeeta Ghosh	Chemistry	Dr. Debapriya De
122	Tamalika Chakraborty	Biotechnology	Dr. Sumana Chatterjee, Dr. Lopamudra Dutta
123	Tanaya Paul	Biotechnology	Dr. Jaya Bandyopadhyay
124	Jyotirmoy Rakshit	Biotechnology	Dr. Jaya Bandyopadhyay
125	Avisek Mahapa	Biotechnology	Dr. Keya Sau



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126	Anirban Mukherjee	Biotechnology	Dr. S. R. Chaudhuri
127	Sasti Gopal Das	Bioinformatics	Dr. Abhijit Datta
128	Hirak Jyoti Chakraborty	Bioinformatics	Dr. Abhijit Datta
129	Manas Kr Saha	ME	Dr. Santanu Das
130	Ashim Roy	ME	Dr. Nemai Mukhopadhyay
131	Himanish Chakraborty	Food Technology	Dr. Banani Ray Chaudhury
132	Sandip Das	Leather Technology	Dr. Sanjoy Chakraborty, Dr. Anjan Biswas
133	Jadupati Malakar	Pharmaceutical Technology	Dr. Amitava Ghosh
134	Kamalika Mazumdar	Pharmaceutical Technology	Dr. H. S. Maji, Dr. N. N. Bala
135	Koyel Kar	Pharmaceutical Technology	Dr. N. N. Bala, Dr. R. N. Paul
136	Debasis Dutta	Pharmaceutical Technology	Dr. S. Maity
137	Priyanka Ray	Pharmaceutical Technology	Dr. Sumana Chatterjee, Dr. Prerona Saha
138	Sumana Ghosh	Pharmaceutical Technology	Dr. Lopamudra Datta, Dr. Prerona Saha
139	Dhrubajyoti Sarkar	Pharmaceutical Technology	Dr. S. K. Bose, Dr. S. Roy
140	Supriya Mana	Pharmaceutical Technology	Dr. Souvik Roy, Dr. Tapan Kr. Barman
141	Swarupananda Mukherjee	Pharmaceutical Technology	Dr. S. Maity, Dr. Bijaya Ghosh
142	Sourabh Dubey	Pharmaceutical Technology	Prof. B. K. Gupta, Dr. Gauranga Nandi
143	Rana Datta	Pharmaceutical Technology	Dr. Sankhadip Bose
144	Ranu Biswas	Pharmaceutical Technology	Dr. Kalyan Kr. Sen
145	Sujit Das	Pharmaceutical Technology	Dr. Amitabha Ghosh, Dr. Manas Bhowmik
146	Suma Oommen Sen	Pharmaceutical Technology	Dr. Pritesh Devbhuti
147	Syed Ansar Ali	Pharmaceutical Technology	Dr. Kalyan Kr. Sen, Dr. T. Prabhakar
148	Soumya Bhattacharya	Pharmaceutical	Dr. Dr. Lopamudra Datta, Dr. Sriparna Kundu Sen

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		Technology	
149	Anuranjita Kundu	Pharmaceutical Technology	Dr. Abhijit Sengupta, Dr. Prerona Saha
150	Sandip Kumar Pahari	Pharmaceutical Technology	Prof. B. K. Gupta, Dr. R. Debnath
151	Amites Gangopadhyay	Pharmaceutical Technology	Prof. Amitabha Ghosh, Dr. Netai Ch. Chauha
152	Abir Koley	Pharmaceutical Technology	Dr. Abhijit Segupta, Dr. Lopamudra Dutta
153	Sourav Pakrashi	Biotechnology	Dr. Jaya Bandyopadhyay
154	Priyanka Ghosh	Biotechnology	Prof. S. K. Dey
155	Pranami Bhaumik	Biotechnology	Prof. S.K. Dey
156	Angshuman Biswas	Biotechnology	Prof. S. K. Dey
157	Santanu Mukherjee	Biotechnology	Dr. Jaya Bandyopadhyay
158	Jatindra Nath Gain	ECE	Prof. S. Kundu, Dr. Madhumita Das Sarkar
159	Barnali Chaudhuri	IEM	Dr. P. K. Dan
160	Protik Basu	IEM	Dr. P. K. Dan
161	Asit Kr Choudhury	Physics	Prof. Sandip K. Chakrabarti
162	Jyotirmoy Das	Bioinformatics	Prof. Tapash Ch. Ghosh
163	Prabir Kumar Datta	Pharmaceutical Technology	Prof. Amitabha Bose, Dr. Goutam Mukhopadhyay
164	Shreya Chakraborty	Pharmaceutical Technology	Dr. Anindya Bose, Dr. Chhabinath Mandal
165	Swati Maiti	Biotechnology	Dr. Mukesh Singh
166	Mandar Bhattacharya	Biotechnology	Prof. S. K. Dey
167	Nabanita Halder	Biotechnology	Dr. Shaon Ray Chaudhuri
168	Swagata Roy Chowdhury	Biotechnology	Dr. Jaya Bandyopadhyay
169	Shaista Tabassum	Biotechnology	Prof. S. K. Dey
170	Srimoyee Banerjee	Biotechnology	Dr. Shaon Ray Chaudhuri, Dr. Indranil Mukherjee
171	Banishikha Singh	Biotechnology	Dr. Soma Banerjee
172	Poulami Majumder	Biotechnology	Prof. S.K. Dey, Dr. Sujoy Ghosh
173	Tanmoy Mondal	Biotechnology	Prof. S. K. Dey
174	Debashis Majumder	Biotechnology	
175	Asmita Das	Biotechnology	
176	Debanjan Jana	Biotechnology	Dr. Siraj Datta, Dr. Rajarshi Banerjee,
177	Rimashree Baishya	Biotechnology	Dr. Soma Banerjee, Dr. Dipankar Chaudhuri
178	Swati Sinha	Biotechnology	Dr. Jaya Bandyopadhyay, Dr. Angsuman Sarkar



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179	Argha Mandal	Biotechnology	Dr. Dipankar Chaudhuri, Dr. Soma Banerjee
180	Tilak Raj Maity	Biotechnology	Dr. Siraj Datta
181	Soumya Kanti Ghosh	Bioinformatics	Dr. Raja Banerjee, Dr. Bhaskar Saha
182	Divanshu Shukla	Bioinformatics	Dr. Raja Banerjee, Dr. Bhaskar Saha
183	Piya Patra	Bioinformatics	Dr. Raja Banerjee, Prof. Jaydeb Chakrabarty
184	Avimanyu Bandyopadhyay	Bioinformatics	Dr. Dipankar Chaudhuri, Dr. Soma Banerjee
185	Sharmistha Dey	CSE	Dr. Santanu Kr. Sen
186	Atri Sanyal	CSE	Prof. Amitabha Sinha
187	Arghya Ghosh	CSE	Dr. Pranam Paul
188	Sonali Sen	CSE	Dr. Arup Kr. Bhaumik, Dr. Jaya Sil
189	Chandrima Chakrabarti	CSE	Dr. Siuli Roy
190	Sahabul Alam	CSE	Dr. Debashis De
191	Dhrubasish Sarkar	CSE	Dr. Dipak Kr. Saha, Dr. Premananda Jana
192	Arunava Bhattacharyya	CSE	Dr. Dlip Kr. Gayen, Dr. Tanay Chattopadhyay
193	Jitesh Prasad Khatick	CSE	Dr. Soumitra Kr. Mandal
194	Sudakshina Dasgupta	CSE	Dr. Paramartha Dutta
195	Ananya Banerjee	CSE	Dr. Siuli Roy
196	Tamoghna Purakaystha	CSE	Dr. Debashis De, Dr. Tanay Chottapadhyay
197	Krishna Kumar Jha	CSE	Dr. H. S. Dutta
198	Biplab Kanti Das	CSE	Dr. H. S. Dutta
199	Dipankar Hazra	CSE	Dr. Debnath Bhattacharyya
200	Partha Ghosh	CSE	Dr. Santanu Phadikar
201	Sayamuddin Ahmed Jilani	CSE	Dr. S. N. Mandal
202	Jayeeta Debnath Munshi	Management	Dr. Shamima Haque
203	Ranajit Sarkar	Management	Dr. Subir Kr. Roy
204	Soma Basu	Management	Dr. Deepankar Sinha
205	Swagata Sengupta	Management	Dr. Tamal Datta Chaudhuri
206	Romi Roy	Management	Dr. Ram Pratap Sinha
207	Debashruti Ganguli	Management	Dr. Niloy Sarkar
208	Sudip Kumar De	Management	Dr. Shantanu Chakraborty, Dr. Atri Bhowmik
209	Partha Das Biswas	Management	Dr. Sandeep Ray Chaudhuri
210	Subhankar Dutta	Management	Dr. Diganta Mukherjee
211	Gourab Majumder	Management	Dr. Suman Kr. Dawn
212	Chinmoy Ghosh	Management	Dr. Sujit Mukherjee
213	Biswanath Chakraborty	Management	Dr. Santanu Das
214	Sandip Chattopadhyay	Management	Dr. Ranjan Dasgupta

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215	Sritoma Banerjee	Pharmaceutical Technology	Dr. Kalyan Kr. Sen
216	Atanu Chatterjee	Pharmaceutical Technology	Dr. Himangshu Sekhar Maji, Dr. Pranabesh Chakraborty
217	Sougata Jana	Pharmaceutical Technology	Dr. Kalyan Kr. Sen
218	Priyanka Chakraborty	Pharmaceutical Technology	Dr. N. N. Bala, Dr. Sudipta Das
219	Bibak Laha	Pharmaceutical Technology	Dr. Sabyasachi Maiti
220	Sudipta Chakraborty	Pharmaceutical Technology	Dr. N. N. Bala, Dr. Sudipta Das
221	Ansuman Bhattacharya	Pharmaceutical Technology	Dr. H. S. Maji, Dr. S. Maji, Dr. P. K. Halder
222	Manabendra Dhua	Pharmaceutical Technology	Dr. Sabyasachi Maiti
223	Ayantika Sil	Pharmaceutical Technology	Dr. Somasree Ray
224	Subhajit Ghanty	Pharmaceutical Technology	Dr. Nitai Chand Choulya
225	Motireyee Chattopadhyay	Pharmaceutical Technology	Dr. Goutam Kr. Bagchi, Dr. Malaya Gupta
226	Smita Patra	Pharmaceutical Technology	Dr. N. N. Bala, Dr. Gouranga Nandi
227	Sajal Sasmal	ECE	Dr. Madhumita Das Sarkar, Dr. Pradip Kr. Ghosh
228	Shovon Nandi	ECE	
229	Madhumita Sarkar	ECE	Dr. Shila Ghosh
230	Rajasree Hazra	ECE	Dr. Chandan Kr. Ghosh
231	Supriyo De	ECE	Dr. Jaydeb Bhaumik
232	Asit Ikbal Mandal	ECE	Dr. Arindam Biswas
233	Avik Chakraborty	ECE	Dr. Angsuman Sarkar
234	Kousik Bishayee	ECE	Prof. B. N. Biswas, Prof. C. K. Sarkar
235	Shantanu Mandal	ECE	Prof. B. N. Biswas, Prof. C. K. Sarkar
236	Poulami Jana	ECE	Dr. Amit Phadikar, Dr. Goutam Kr. Maity
237	Rajesh Dutta	ECE	Prof. Sudakshina Kundu
238	Samiran Maity	ECE	Prof. Achintya Das
239	Surajit Bari	ECE	Dr. Angsuman Sarkar, Dr. Debashis De
240	Nirmalya Chandra	ECE	Prof. Achintya Das



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241	Biswajit Baral	ECE	Dr. Angsuman Sarkar, Dr. Debashis De
242	Subir Das	ECE	Dr. Himadri Sekhar Dutta, Dr. Badal Chakraborty
243	Sudhansu Mohan Biswal	ECE	Dr. Angsuman Sarkar, Dr. Debashis De
244	Mili Sarkar	ECE	Dr. G. S. Taki
245	Tanushree Kumar	EE	Dr. Arghya Sarkar
246	Chand Mohammad Ansari	EE	Dr. Soumitra Kr. Mandal
247	Suman Kumar Ghosh	EE	Dr. Prasanta Sarkar
248	Abhijit Basu	EE	Dr. Krishnendu Chakraborty
249	Souvik Kumar Dolui	EE	Dr. Soumitra Kr. Mandal
250	Mahesh Boddu	EE	Dr. Soumitra Kr. Mandal
251	Chatla Raja Rao	EE	Dr. Soumitra Kr. Mandal
252	Sanjay Bhadra	EE	Dr. Jayanta Gope
253	Sununda Hazra	EE	Dr. Provas Kr. Roy
254	Amlan Chakrabarti	EE	Dr. Krishnendu Chakraborty
255	Debasish Mondal	EE	Dr. Arghya Sarkar
256	Suman Das	AEIE	Prof. Joyanta Kr. Roy
257	Sirsendu Mahata	PE	Dr. Santanu Das, Dr. Bijoy Mandaldr



Registrar's section

### Staffs who has upgraded qualifications

- Amar Kanti Ghosh has successfully completed the Ph.D coursework with 1<sup>st</sup> Class and also has passed MBA with 1<sup>st</sup> class from The University of Burdwan.
- Sujay Mukhopadhyaya has successfully completed BA with Honours examination.
- Pritam Chakraborty and Sujit Kumar Roy and Sanjoy Hazra has successfully completed HS examination.

### Report from the Office of the Inspector of College

Affiliation / Renewal Affiliation/ De-affiliation of the AICTE & Non-AICTE courses and Recognition / De-recognition of the different colleges are being looked after by this office. This department is carrying out the inspection round the year. In the year 2016 there are 197 colleges affiliated to this University. For the purpose of inspection of colleges this department has developed the format pertaining to the Self Assessment Report & Inspection Report (SAR & IR) for AICTE approved colleges and Non-AICTE colleges conducting MAKAUT, WB courses. In that format relevant norms of AICTE/MAKAUT, WB against each item has been embedded. Furthermore, the list of laboratories mentioning Code against each course semester wise has been provided in that format 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 format 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 college are being carried out by this department.



*Inspector of Colleges section*

This department has developed Computerized Web based Management System (CWMS) comprising of three (03) modules namely; (i) Faculty Information System (FIS), (ii) Infrastructure Information System (IIS) and (iii) Web based Management System (WMS). All infrastructures 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 of the University particularly in terms of furnishing different type of data to the Regulatory Authorities like UGC, AICTE, MHRD etc.

The inspection of affiliated colleges are carried out time to time round the year by this department. In the year 2016, 124 Nos. of colleges (57 AICTE & 67 Non-AICTE) were inspected by this department. Through the above mentioned exercises the University is vigilant to monitor the affiliated colleges in order to ensure the qualitative development.

### Report from the Controller of Examinations Section

1. The University has around 200 affiliated colleges and more than 130,000 students appear in the examinations per semester. More than 650,000 answer scripts need to be evaluated in every semester examination. More than 1000 question papers are prepared for the different UG and PG programmes offered by the University in its affiliated Colleges and In-house departments.



*Controller of Examination section*

2. The university conducts the following examinations during a particular academic session –

- (i) Odd and Even semester examinations in December/January and May-June every year. This is conducted in all the affiliated colleges (numbering around 200) as well as the In-House Departments of the University.
- (ii) Separate Supplementary examinations after the publication of the final semester examination results of the Even semester. This is conducted in the University campus itself.
- (iii) Part A examinations for students of the BHSM and BHMCT programmes. This is conducted in the affiliated Colleges which offer these programmes.

In addition, the university carries out post-publication review of the odd and even semester examination results.

3. 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 MCA programme and a host of two-year programmes like M.Tech, MBA, M.Sc, MHA etc.

4. The Even Semester Examinations 2016 for the 2015-16 academic session for both UG and PG programmes were held in June 2016. The 8<sup>th</sup> semester results for all the four-year programmes were published on 2<sup>nd</sup> August, 2016. The results of all the other semesters were published on 31<sup>st</sup> August, 2016. A summary of the results in the last even semester examinations held in June 2016 for the 2015-16 academic session including the number of students who appeared in the examinations and who passed in the same leading to the obtaining of degrees is shown in the table below:

Sl. No.	Programme Type (UG/PG)	No. of candidates appeared	No. of candidates passed	Pass percentage
1.	Four Year Programmes (UG)	26050	24931	95.70
2.	Three Year Programmes (UG)	5261	4376	83.18
3.	MCA (PG)	981	924	94.19
4.	MBA (PG)	987	916	92.81
5.	MTECH/MSC/ MPHARM/PBIR (PG)	974	905	92.92

5. Student support services – The COE section caters to student support services like issue of transcripts, duplicate Grade Cards and Certificates, corrections in documents, document verification etc. The university has deployed dedicated manpower to deal with the student support services section. Each staff member of the university has been put in charge of a certain number of colleges. Colleges can get in touch with the concerned staff member to report their problems and have these problems addressed. There is also one staff member specially assigned to take care of all document verifications.

## 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 more than two millions books among which 17200 ( approx) are printed books, 21 renowned print journal and 6000 (Approx.) e-journals and conference proceedings. The library has also purchased the e-collection of Annual reviews back volume. The library also has a good collection of CDs, audio Cassette and DVD . The library is focusing on e-resources due to shortage of space. 2250 numbers of journals has been procured in 2016-17.





*Library Section*

The University library is now member of E-Sodh -Sindhu (UGC Infonet) Digital Library consortia. University is getting e-journals like IEEE, Cambridge University Press, Economic & Political Weekly, ISID, , JCCC, Oxford University Press, Springerlink, Taylor & Francis from the consortia. and University itself is subscribing e-journals like IEE, Elsevier, Springer Nature, ACM Digital Library, JAmerican Society for Biochemistry and Molecular Biology , Taylor and Francis, etc.

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 is an open access library which gives its user the facility to directly go to the rack and choose his/her own books. The reading room has a seating capacity of 56 user at a time. It also has 10 terminals as e-corner used for digital library facility. These terminals are managed using libki. A 45min slots is allotted to the students in a day. On an average 60-70 students come to the the library reading room per day.

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 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 the campus and outside the campus. There is a dedicated machine for searching library resources through library portal near the library entrance to facilitate its users. Students and university staffs can browse the Internet and the e-resources subscribed to by the university through the thin clients in the reading room as well as from anywhere within the campus.

Users become aware of the library rules and regulation 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 classrooms 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 license. 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.

Library is outsourcing the photocopying service and network printing. Photo copy can be done for Re. 1.00 / page. The network printing service can be accessed from any where within the campus.

An access ramp has been constructed for the physically challenged users. The ramp is directly connected to the reading room to make the library easily accessible to the physically challenged .

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 photo copy a limited numbers of pages. They can also use the library e-resources, download and can take print required portion using the networked printer. The students and faculty members only needed to bring their college ID card to enter the library.

## A University with a Difference

- I. The University produces the largest chunk of technical manpower in the state who serve our industry.
- II. Introduced several post Graduate and Doctoral programmes at the University as well as in the affiliated colleges.
- III. Quick publication of examination results.
- IV. The University covers the entire spatial span of the state for inclusive development of technical resources spread over 15 districts.
- V. Inclusion of the University in Section 2F and also in Section 12B of the UGC and recipient of UGC grant.
- VI. Receives financial support from the Government of West Bengal and Government of India scholarship grant for M.Tech students with valid GATE score.
- VII. The University has a "Technology and Business Incubation Center" - (Incubator status approved by Dept. of Science & Technology, India), named "EKTA" for start up business.
- VIII. The University actively encourages its employees to upgrade their skills/ competence by providing opportunity to enroll in higher studies. The following persons are currently engaged in higher degree / skill upgradation / publications thereof:



### Placement at MAKAUT, WB

The University is actively contributing towards improvement of students' employability through its Placement Cell and through regular interaction with Industries. The Placement of in-house students is quite satisfactory. University is also providing assistance to the affiliated colleges for employment of their students through the Central Placement Committee constituted by the University.

The University organizes regular guest lectures inviting professionals from industry to guide the students about the expectations of the industry, corporate etiquettes etc. The students are provided with ample opportunity of interaction with these experts. Mock aptitude tests are conducted for the final year students. The training and placement officer regularly interacts with the students and guide them for the group discussions and preparation for interviews to make them industry ready.



Placement cell

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

The University is also establishing a grooming center for improving the employability of the students.

The following companies visited during 2015-16 for placement purpose

Infosys	Hp Mphasis	Cybage
Wipro	HackerRank	CTS
Oracle		

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

### Financial Status

Maulana Abul Kalam Azad University of Technology, West Bengal is a cashless University in the State of West Bengal and perhaps might be the only State University throughout the Country having no Cash Counter. The entire system of the Finance Department is ERP driven, which was developed by a Central Government Agency. The Accounts of the University are subject to continuous Internal Audit System by the Govt. empanelled Chartered Accountants firms selected through proper administrative procedure.



*Finance section*

The accounts of the University are subject to Certification Audit by Chartered Accountants Firm after which it gets audited by the Examiner of Local Audit Department of the Comptroller and Auditor General of India. The Transaction Audit of the University has been conducted by LAD, CAG up to the Financial Year 2014-15. The accounts for the Financial Year 2015-16 and 16-17 are yet to be audited by them.

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, after getting approval from the “Investment Committee” constituted by the Executive Council. All investments made by the University are ritually reported to the subsequent Finance Committee meeting.

All purchases / procurements are made complying the procurement norms of the State Govt. and all purchases over and above Rs. 10,000/- are processed through the Procurement/ Purchase Committee constituted by the Executive Committee of the University. All payments of the University are made through account payee cheques excepting the payments to be made to the confidential press, the payment of which is being made from Confidential Account. The authorised signatories of the Confidential Account are the Vice Chancellor and the Controller of Examinations of the University. All the remuneration payments to the examiners, students, and employees of the University are made through RTGS transfer.

There is a system of receiving cash by debit / credit card at the counter of the Finance Department and most of the students prefer to pay their dues through this system

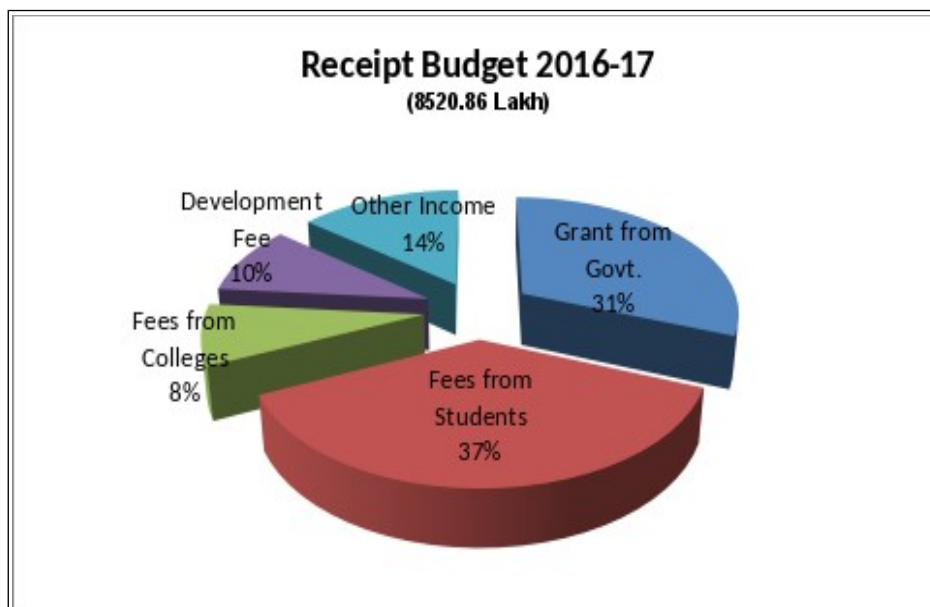
All payments are made after verifying Stock Book Entry & Goods Receipt Note (GRN), which is to be mentioned on the top sheet of each and every bill as per the requirement of the system. All Projects sanctioned by different Central / State Funding Agencies have got their respective Savings Accounts of which the Project Co-ordinator 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.

#### University budget:

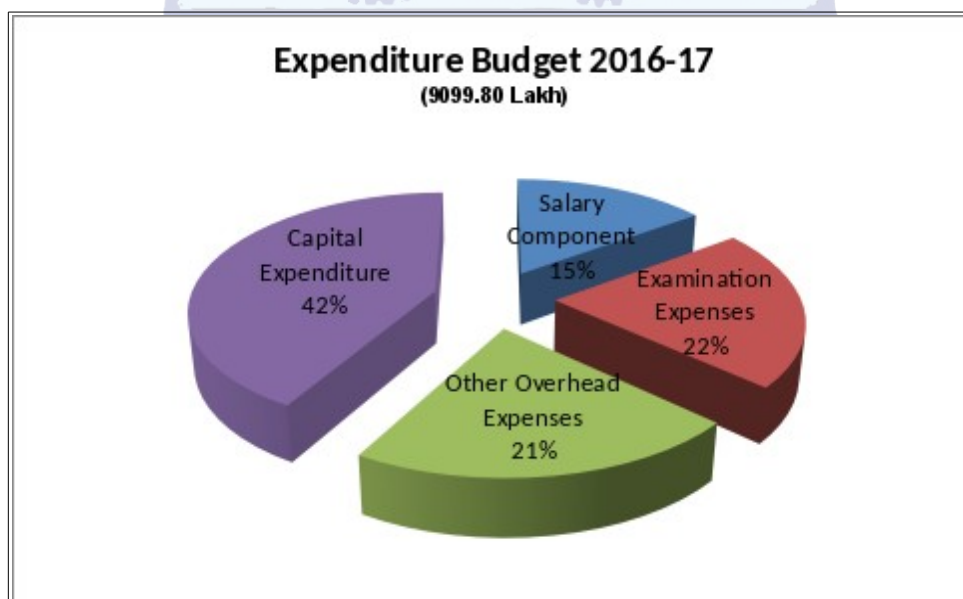
The University Budget specifies the object and limits upto which expenditure may be incurred during the specific financial period which enables the departments to translate their future plan into reality, keeping parity with the provision of resource for the concerned department. The Budget for the Financial Year 2016-2017 have been prepared after going through the discussions with the Head of the Departments.



The Budget Analysis of the prospective Income and Expenditure reveals the following picture:



The next Pay Commissions for the University Faculty Members, Officers and Non-Teaching Employees are expected to be formed and furnish their reports in the next financial year. Anticipating this into consideration,



we have provided 50% increase in the 'Salary' in the Budget of the next financial year. Some new Head of Accounts have been incorporated in the *Budget* for the Financial Year 2016-2017, as per the requirements of the NAAC. The visit by the NAAC Team is expected anytime at the beginning of the next year. The University also allotted nearly about Rs.1.00 crore from the UGC Development Fund and TEQIP Fund for upliftment of the laboratories, classrooms, seminar hall and the entire University Building situated at BF-142, Salt Lake, Kolkata-700064, prior to the visit by the NAAC Team. It is worth mentioning it here that considerable improvement of Teaching and Research Activities and Soft-skill Development Programmes for the students have taken place utilizing the *Technical Education and Quality Improvement Programme*

(TEQIP-II) Grants', There has been considerable improvement of the University Campus at Haringhata after resuming the construction work by the Mackintosh Burn Limited. The university has so far paid approx Rs 71.50 Crore to M/s Mackintosh Burn Ltd. for development of the new campus and we are expecting that in the middle of 2017, we will be able to start shifting to our new campus at Haringhata.

The University has also released a considerable amount to the students of the University and affiliated colleges in case of death of their earning parents from Students' Development Fund. The students are also getting medical benefits through Student's Health Home for which the university pays the necessary universal membership fees. The university also has taken a proactive role to send the university team to participate in different All India Sports meet organised by the AIU. The university Rowing Team has won the Silver and the Bronze medals in All India Rowing Championship held in the year 2016 at Osmania University, Hyderabad. The University has also been participating in the International Kolkata Book Fair regularly.

The University has also started the Remedial Coaching Scheme for the SC, ST, Minority and OBC (Non creamy layer) at different parts of the State utilising the UGC and University Fund.

Academic Globalisation and Technology related change drivers are constantly reshaping the landscape of the higher education. The University has tried its level best to accommodate all requirements of the Departments with its own resources.

### **Hostel for Students**



*Girls hostel at Haringhata campus*

We accommodate our eminent visitors in the Guest House of S. N. Bose Institute for the Basic Sciences, our nodal center.





*Boys hostel at Haringhata campus*

### **Syllabus Up-gradation**

The University revises the regulations, scheme of examinations, curricula and syllabi at frequent interval keeping in view of the following.

- Feedback from the employers/civil society
- Instruction from the regulatory bodies such as AICTE and UGC and Assessment of regional needs
- Trend analysis.
- Societal and Industrial projections.
- Evaluation of availability of experts, expertise, training, tools and techniques.
- Review on affordability and utility as well as feasibility and addressing the global challenges.
- Feedback from Alumni



*Board of Studies*

# ANNUAL REPORT

## 2016 - 2017

The revision has been done rigorously after taking inputs from various stake holders like Government policy makers, other technological universities of India, industries and research institutes. Joint meetings of the Boards of Studies are held to determine a uniform structure and curriculum to be followed by all B.Tech. Courses, the syllabi were revised accordingly and implemented from academic session 2010-11.

- In-house Syllabus revision for PG courses:

- Department of CSE:

- a) Syllabi of M.E in CSE and M.Tech in Software Engineering were revised twice after they started in 2005; once in 2007 and became effective from 2008-09 sessions and again in session 2013-14 when both the syllabi conformed to the uniform structure for M.Tech prescribed by the University.

- b) M.Tech in MVD was introduced in the academic session 2007-08 with a new syllabus which was revised twice after that, once in 2009 and again in 2013 to conform to the uniform structure prescribed by the University.

- Department of Information Technology:

M.Tech. in IT was introduced in 2005 and the syllabus was revised in session 2013-14 when the syllabus conformed to the uniform structure for M.Tech prescribed by the University. Presently MHRD and DoIT&E, Govt. of India have jointly made the University a partner in the Curriculum Development programme related to Cyber and Internet Security. Under this programme new electives will be introduced in consultation with research institutes and industry

- Department of Biotechnology and Bioinformatics:

M.Tech (Biotechnology) course was introduced in 2003 with a syllabus set by Department of Biotechnology (DBT), which was subsequently revised in 2009 as per departmental faculty expertise. M.Tech (Bioinformatics) course was initiated in 2005. The BOS subsequently revised and upgraded the syllabus in 2006, 2008 and 2011 as per the requirement of BINC examination and industry demand.

- Department of IEM:

The Course was introduced in 2008 with a new syllabus for Post Graduate programme.

- Affiliated Programmes:

- Technology:

- B.Tech Programmes have been revised in 2010 as stated before.
    - Uniform structure of M.Tech courses has been introduced in 2009. All M.Tech courses have been revised in stages between 2011 to 2014.

- Applied Science:

Uniform structures for M.Sc. in applied sciences have been designed in 2015 and syllabii have been revised accordingly.

- Bachelor and Master in Management Sciences:

Uniform structures for B.M.S. and M.M.S. (Pharmaceutical Sciences) in applied sciences have been designed in 2015 and syllabii have been introduced accordingly.



### Report of Technical Education Quality Improvement Programme (TEQIP) for 2016-17

- (i) More than 100 trainings have been undertaken by the students belonging to Up & PG and also by Faculties and staff members of the University who have been to various places under assistance from TEQIP-II.
- (ii) Publication by students & faculties amounts to 25 in National Journal and 178 in International Journal.
- (iii) 20 patents have been filed and 3 have already been obtained so far.
- (iv) Book entitled “Establishing Good Governances in Institute of Higher Education” has been published under Institutional Reforms head of TEQIP-II.
- (v) Collaborative programmes and Memorandum of Understanding have been signed with more than 13 Institutes of repute and the University Maulana Abul Kalam Azad University of Technology, West Bengal namely:
  - Texas Instruments for development of special Labs
  - NBIRT for academic collaboration
  - Agreement for academic cooperation between Department of Life Science, Hanyang University, Seoul, South Korea and Department of Biotechnology of the University
  - Collaboration with the University of Melbourne, Australia
  - KITE for academic collaborations
  - For academic collaboration between Department of Life Science, Hanyang University, Seoul, South Korea and Department of Biotechnology of the University
  - Agreement with Entrepreneurship Development Institute of India
  - Agreement with IEST, Shibpur for academic collaborations

An amount of Rs. 9 crores 95 lakhs has been received for the total project tenure and along with the interest the corpus sum accumulated is Rs. 10crores 45lakhs and University is in a position to have utilized the money for its developmental work and enhancement in academic fields under different heads.

Coordinator: Dr. Debashis De

**Industry-Institute Interaction Cell (III-C) :** Nodal Officer Dr. Madhumita Das Sarkar

- (i) Industry Academia Conclave being held in Milan Mela Prangan from 27<sup>th</sup> March to 29<sup>th</sup> March, 2017 to create an interface between Industries and Academics (Teachers, Researchers and Students) for interaction and transfer of knowledge, experience & Technology. In 120 stalls were displayed the innovations by students from In-house and affiliated colleges and budding start-ups.
- (ii) Industry-Institute interaction on improvement in employability, awareness on employment opportunity facilitated by the Alumni of MAKAUT, WB held on 26<sup>th</sup> March, 2017 .
- (iii) Workshop/seminar on IEEE Internet of Threads (IOT) held on 15<sup>th</sup> November, 2016 in WBUT Auditorium .
- (iv) UNDP sponsored seminar on “Nayee Disha”, a career counselling workshop for women held on 28<sup>th</sup> October, 2016 .



# ANNUAL REPORT

## 2016 - 2017



International Conference on Advanced Computing



National Seminar on Ethics in Academic Governance

**Research & Development (R & D) :** Nodal Officer Dr. Jaya Bandyopadhyay

- (i) "Micro-2016" International conference held on 9<sup>th</sup> - 10<sup>th</sup> July, 2016 at Science City Auditorium.
- (ii) Holding of "International Conference on Advanced Computing" held in CII-Suresh Neotia Centre of Excellence, Salt Lake .
- (iii) Conference entitled "NanoBioCon" held in Science City Auditorium .
- (iv) Conference on "Cancer Diagnosis & Therapy" organized in the Auditorium of the University on 30<sup>th</sup> & 31<sup>st</sup> of March, 2017.
- (v) Short term course on "Data Mining and its Application" at Indian School of Mines, Dhanbad from 27<sup>th</sup> February to 3<sup>rd</sup> March, 2017 attended by Research Scholar DeepSubhra GuhaRoy



- accompanied by final year M. Tech student Rohan Mukherjee.
- (vi) Winter Training on “Micro Electronics & VLSI Design” at Jadavpur University attended by 17 final year M.Tech students .
  - (vii) Workshop on “Learn to Understand, Analyze & Verify Large Software” at National Institute of Technology, Patna held from 20<sup>th</sup> to 22<sup>nd</sup> March, 2017 attended by 5 M.Tech Final year students .
  - (viii) One day seminar on “Recent Advances in Computing & Communication Technologies” on 28<sup>th</sup> March, 2017 held in collaboration with Government College of Engineering & Ceramic Technology, Kolkata.
  - (ix) Two day workshop on “Network Security for Future Generation Mobile Network” held on 30<sup>th</sup> and 31<sup>st</sup> March, 2017 in the University.
  - (x) Workshop on “Cognitive Radio & 5G Mobile Network” held in University campus on 30<sup>th</sup> March, 2017.
  - (xi) Two day seminar on Mobile Cloud Computing held from 30<sup>th</sup> November, 2016 to 1<sup>st</sup> December, 2016 in University campus. .
  - (xii) Research Assistant Piya Patra attended 6<sup>th</sup> Indian Peptide Symposium, 2017 in Homi Bhaba Centre for Science, Education Mankhurd Mumbai held on 23<sup>rd</sup> & 24<sup>th</sup> February, 2017 .
  - (xiii) M.Tech Final year student in Software Engineering Subha Ghosh attended 5<sup>th</sup> International Conference on Computing, Communication & Sensor Network, 2016 held in Kolkata on 24<sup>th</sup> & 25<sup>th</sup> December, 2016. .



*A meeting of TEQIP in progress*

- (xiv) M.Tech Final year student Madhav Chandra Ghosh from Department of Industrial Engineering Management attended a professional training programme on Boiler Tube Failure & Remedies held in CSIR Central Mechanical Engineering Research Institute, Durgapur on 14<sup>th</sup> & 15<sup>th</sup> July 2016.



## International Conference : NanoBioCon 2016





- (xv) M.Tech Final year student Mainak Ghosh from Department of Industrial Engineering Management attended a GIAN Course on “HR & Strategic Management” and “Quality Engineering in Products & Processes” organized by IIT Kharagpur held on 26<sup>th</sup> to 30<sup>th</sup> November, 2016 and from 19<sup>th</sup> to 30<sup>th</sup> December, 2016 respectively.
- (xvi) Workshop organized by Department of Biotechnology on 19<sup>th</sup> august, 2016. Expert Dr. Krishnendu Mukherjee (Group Leader : Infection Biology & Insect Epigenetics Scientist in Department of bio-resources, Fraunhofer Institute for Molecular Biology & Applied Ecology, Giessen, Germany) was the key speaker.
- (xvii) Seminar on Entrepreneurship Development held on 3rd May, 2016 organized by CSE Department .
- (xviii) Research Assistants Deepshubra Guha Roy & Priti Deb attended a training for Apache Hadoop Administrator held in Bangalore on “Cloudera Administrator Training for Apache Hadoop” organized by Cloudera University from 26<sup>th</sup> to 29<sup>th</sup> September, 2016.

### **Institutional Reforms Unit : Nodal Officer Dr. Raja Banerjee**

- (i) National Conference on “Ethics In Academic Governance” held in CII-Suresh Neotia Centre of Excellence, Salt Lake .

### **Student Support (Finishing School & Equity Assurance Unit)**

#### **Finishing School : Nodal Officer Dr. Suparna Biswas**

- (i) Workshop on “Latex” held from 20<sup>th</sup> to 22<sup>nd</sup> March, 2017 in the Auditorium of the University .
- (ii) Two day lecture series on “Advancement in Wireless Computing & Security & Advanced Topics in Image Processing : Current Research Trends & Challenges” held in University campus on 15<sup>th</sup> & 16<sup>th</sup> March, 2017.
- (iii) One-day seminar on “Swamijir Shikha Bhabona : Bartaman Pariprekhita Tar Proyojan O Proyog” held on 8<sup>th</sup> March, 2017 which reciprocates the thinking of Swami Vivekananda in the context of contemporary necessity and it's implication on Society held in the Auditorium of the University.
- (iv) Seminar lecture on “Artificial Intelligence on Computational Biology” held on 20<sup>th</sup> & 21<sup>st</sup> March, 2017 in the University campus.
- (v) Two days workshop on “Statistics in Biology” held on 28 & 29<sup>th</sup> September, 2016 organized by Department of Bioinformatics.
- (vi) Workshop on Android held from 16<sup>th</sup> to 21<sup>st</sup> May, 2016 for University's In-house students.
- (vii) Workshop on “Cloud Computing” held on 29<sup>th</sup> July, 2016 in University campus.
- (viii) One day seminar on “Advancement in Wireless Network : Challenges in Technology & Security” on 9<sup>th</sup> May, 2016 in University campus.
- (ix) Workshop on photoshop from 22<sup>nd</sup> to 24<sup>th</sup> August, 2016 in University campus organized by Department of Computer Science Engineering.
- (x) 5 days Hands On Workshop for the 2<sup>nd</sup> Semester M. Tech students of Bioinformatics on “Bioinformatics in Today's perspective” from 28<sup>th</sup> March to 1<sup>st</sup> April, 2016 attended by External Expert from IISc Bangalore Prof. Debnath Pal.

#### **Equity Assurance Unit : Nodal Officer Dr. Santanu Phadikar**

- (i) Training programme on Android held from 14<sup>th</sup> to 16<sup>th</sup> March, 2017 in the IBM Lab of the University.
- (ii) Special Lecture on “Deep Learning” held on 9<sup>th</sup> & 10<sup>th</sup> March, 2017 in the University .
- (iii) Training programme on “MatLab” from 14<sup>th</sup> to 16<sup>th</sup> March, 2017 in the IBM lab of the University.
- (iv) Lecture programme on Data Structure organized by CSE Department, held in April, 2016 in University .
- (v) Lecture programme on Pattern Recognition held in April, 2016 in University.
- (vi) Lecture programme on Swam Intelligence held in April 2016 .

### Faculty and Staff Development : Nodal Officer Dr. Sreeparna Banerjee

- i) National Symposium & Workshop on Product Engineering: A frontier for Industrial Engineering” held on 24<sup>th</sup> to 25<sup>th</sup> March, 2017 by Dept. of Industrial Engineering & Management .
- ii) Finance Officer along with four office staff namely Ashish Sarkar, Ashish Nandi, Shamik Ghosh and Indranil Das attended a seminar on “Joint Audit Conclave – The Audit of Auditing” organized by Institute of Internal Auditors India held in Lalit Great Eastern Hotel, Kolkata on 15<sup>th</sup> & 16<sup>th</sup> June, 2016.
- iii) Non – Residential Training Programme on “Positive Work Culture” attended by 9 Office In-house staffs namely Bratati Ghosh, Pritha Ghosh, Sujata Ghosh, Ranjan Mondal, Ashish Nandi, Ajoy Bhattacharjee, Sagar Ratan Basu, Sujit Kumar Saha and Rathindra Nath Bhattacharjee, at Ranchi held from 23<sup>rd</sup> 24<sup>th</sup> September, 2016 organized by National Productivity Council .
- iv) National Productivity Council arranged Residential Training Programme on Project Management & Strategic Financial Planning at Gangtok from 2<sup>nd</sup> to 6<sup>th</sup> May, 2016 attended by Ashish Sarkar and Shamik Ghosh
- v) Information Scientist attended a training for Apache Hadoop Administrator held in Bangalore on “Cloudera Administrator Training for Apache Hadoop” organized by Cloudera University from 19<sup>th</sup> to 22<sup>nd</sup> September, 2016
- vi) Dr. Kaushik Mazumder attended a training programme on “Data Structure & Algorithms” organized by NITTTR, Kolkata from 4<sup>th</sup> to 15<sup>th</sup> July, 2016.

### Project Book

Published a book titled “Basic Algebraic Topology and its Applications” in the year 2016 by Springer funded by Science and Engineering Research Board (SERB) of Department of Science and Technology, Government of India, under the Scheme of Utilisation of Scientific Expertise of Retired Scientists (USERS) authored by Prof. Dr. M. R. Adhikari.



Global Conference and Exhibition at New Delhi



### Industry- Academy Conclave -2017

**Background:** With the current scenario of independent working of Industries and academic institutions, there is a great need to meet the demands of an Engineering Industry. Innovations done in Laboratories do not always reach the industries and entrepreneurs. On the other, academicians and researchers are not always well informed about the problems and need of the industries. The existing gaps need to be bridged to have indigenous solutions to individual problems. Keeping this background in mind, MAKAUT, WB organized a three days Industry-Academia Conclave at Milan Mela Prangan, near Science City, Kolkata during 27<sup>th</sup> March to 29<sup>th</sup> March 2017. This was a unique program which brings the leading experts of the Industry along with the best minds in Academia to provide a common platform of interaction for mutual exchange of ideas, knowledge and technology.



*Secretary, Boston Pledge, Dr. Chitro Neogy delivering on Technoentrepreneur*

**Objective:** The Conclave is motivated to bridge industry-academia technological gap by addressing industrial needs with talent pool from academia. Hence moving along the road-map to technological empowerment of society and alternative job opportunities for the innovators should be a co-existent and mutual development. One important objective of holding the Conclave is to analyze the technology gap between the basic needs of the industry and the expertise available from Academics and ensure that this gap is bridged. In this regard, understanding the issues and challenges faced by the Industry to develop the feasible and workable solutions through Academic collaboration are required. The other important objective is to enlighten both academicians and fresh graduates about the exciting possibilities in the sustainable development of Start-up and subsequent entrepreneurship. The Conclave comprises of Technical sessions, Interactive sessions, Panel discussions and most attractive part was the exhibitions or showcasing from the part of the innovators. The persons from Academics & Research Institutes, Government Departments, Industry Houses, Alumni, and the students of MAKAUT, WB in-house and its affiliated colleges, having Engineering and Science degrees, participated in the program. The vision of the event was set to inculcate the industry-Centric approach in an academic environment and to nurture a culture of Entrepreneurship among the budding graduates.

**Activity:** Based on these visions, the Conclave is fabricated on the three themes: The theme of the first day of the conclave is Technology innovation to Commercialization. In this theme, challenges faced in the process of innovation, support mechanisms, opportunities, Technology Transfer Models and the related case

studies are discussed. The showcasing of the prototype displayed in 120 numbers of stall proof quite satisfactory level of innovation from the part of the young budding engineers of West Bengal. The theme of the 2<sup>nd</sup> day was: Bridging the gap between Industry and Academia, and these sessions are going through the analysis of needs, gaps and requisite skills of the big Industry as well as that for the MSME clusters and units in West Bengal. A special emphasis has been given to the session, sharing the experiences of the upcoming technologies of Solar and IT Industry and its patenting trends. The theme of the third day is based on the Entrepreneurship: enabling the start-up ecosystem in Bengal and its sustainability highlighting the merits of pursuing such a career options.



*Opening session of Entrepreneurship Echo System: Industry Academia Conclave*

**Dignitaries in the Conclave:** The Conclave is facilitated by the presentations delivered by different expert resource persons holding dignified positions in different leading organizations. Dr Dipankar Chakraborty, Executive Director, Price Waterhouse Coopers, Mr Arunabha Pradhan, CGM National Research Development Council (NRDC) a leading Technology Transfer Organization in India, Dr Chandrasekhar Ghosh, MD, CEO, Bandhan Bank, Mr Sanjay Sing and Mr Pulak Ranjan Basak, Scientist and Advisor, Technology Information, Forecasting and Assessment council (TIFAC), DST, Govt of India, Mr Pradymna Kumar Chaudhury, Assistant GM of SIDBI New Delhi, Mr Avinash Kumar, Additional Director, Intellectual Property Rights DRDO, Dr Chandrasekhar Ghosh, MD, CEO Bandhan Bank, Dr Chitro Neogy, General Secretary Boston Pledge, Dr Subhash Kumar Sikdar, Former Associate Director, National Risk Management Lab, US Environment Protection Agency, Dr Mahua Hom Chaudhury from Patent Information Centre, Colonel Sabyasachi Bagchi, Chairman, West Bengal small Industries Development corporation India Limited, Mr D, P Nag, Former Secretary EDI, Sri Sandip Sen, Chairman Entrepreneurship Development Institute EDI, Kolkata.

**Industries in the Conclave:** The specific industries took part in the conclave are: Dr Gargi Kinnie, Tata Cosultancy Services (TCS), Mr Somnath Maity, Retired Chief General manager, Calcutta Telephone, Mr Asim Das, refractory specialist Alumina Baharin, Prof S P Gon Chaudhury, Advisor in Renewable Energy Management, Milinda Foundation, Paris and member, Planning Board, Govt. of Tripura, Mr Kanak Mukherjee, MD, Agni Power and Electronics, Mr Anupam Boral, MD, Geetanjali Solar cell, Mr Debapratap Baul, Deputy general Manager, WEBEL.



**MSME clusters and UNITS in the Conclave:** Baruipur Surgical Clusters, Asansol Refractory clusters and Howrah MSME clusters, and some MSME units also pointed out the state-of-the-art foundry, their issues, challenges to remove the obsolescence and “The Road Ahead” to meet the global demand.

**Enabling Entrepreneurship Ecosystem in West Bengal:**

On the 3<sup>rd</sup> day participants are exposed to the various aspects of Entrepreneurship in the light of the support systems for enabling and sustaining the ecosystem. The importance of entrepreneurship ecosystem in the socio-economic perspective of West Bengal has been presented by Coll. Sabyasachi Baghchi, Chairman, West Bengal Small Industries Development Corporation. Opportunities for the entrepreneurs are identified by some eminent speakers: Mr Sandip Sen, Chairman EDI Kolkata and DP Nag, Former secretary EDI, Chief coordinator of Association of Professional Academic Institution, West Bengal APAI, Mr Nirupam Choudhury, Regional Director at NASSCOM, Chandradeep Mitra, Advisor IIM Kolkata and Dr Shaon Raychaudhry, Associate professor, Tripura University and Dr Mahura Hom Chaudhury, Patent Information Centre.

The most attractive part of the CONCLAVE is the formal and informal interaction and deliberation of successful achievers and entrepreneurs to nurture the start ups.

**Outcome :** Academia endeavour showcasing industrial challenges and directive innovation to meet those are the demand of the industries. In such effort it is to encourage students to face the industry challenge and how to innovate their skills

As an outcome to the academia like MAKAUT, WB it becomes a responsibility to facilitate such innovations with ample opportunities. Need and insurgency of green and sustainability into the pathway of industrial and technological innovations is strongly recommended and objectified as the target for the budding academia and innovators of our society.

Various Facets of entrepreneurship ecosystem has been enumerated to budding entrepreneurs as a viable career option and promotion of the role of job creator instead of jobseekers.

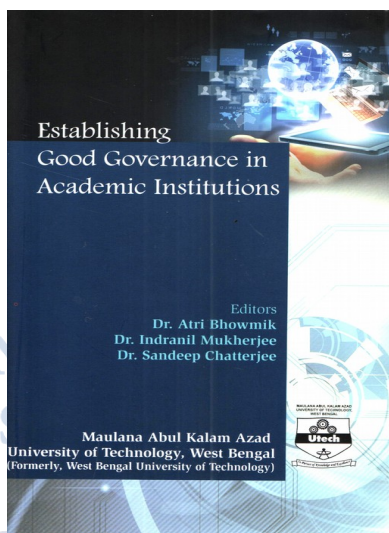


*Seminar on Tax Law in Higher Education Institutions in India*



# ANNUAL REPORT 2016-2017

## Books /Proceedings Published by the University





### List of Affiliated Colleges along with Courses offered

The University had 197 affiliated colleges in 2016-17 situated in all over West Bengal.

Code	COLLEGE NAME	COLLEGE ADDRESS	Level	NAME OF COURSE	INTAKE
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
			UG	MECHANICAL ENGINEERING (2 <sup>ND</sup> SHIFT)	60
			UG	ELECTRONICS & COMMUNICATION ENGINEERING (2 <sup>ND</sup> SHIFT)	60
			UG	CIVIL ENGINEERING (2 <sup>ND</sup> SHIFT)	60
			PG	MECHANICAL ENGINEERING	18
			PG	CHEMICAL ENGINEERING	18
			PG	BIOTECHNOLOGY	36
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	36
			PG	COMPUTER SCIENCE AND ENGINEERING	18
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
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	PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	180
			UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL ENGINEERING	60

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			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			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	INFORMATION TECHNOLOGY	60
			UG	CIVIL ENGINEERING	60
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
107	COLLEGE OF ENGINEERING & MANAGEMENT, KOLAGHAT	P.O.:KTPP TOWNSHIP, DIST.: PURBA MEDINIPUR, PIN-721 171, WEST BENGAL Tel: (03228) 249443, 250600/971 Fax: (03228) 250880	UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			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: cttts@giascal01.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 AND TEXTILE TECHNOLOGY, BERHAMPORE	4, CANTONMENT ROAD, P.O.-BERHAMPORE, DIST-MURSHIDABAD, WEST BENGAL 742101 Tel: (03482) 250142 Fax: (03482) 250809	UG	COMPUTER SCIENCE AND ENGINEERING	44
			UG	ELECTRICAL ENGINEERING	30
			UG	MECHANICAL ENGINEERING	30
			UG	TEXTILE TECHNOLOGY	60
			PG	TEXTILE ENGINEERING	18
112	GOVERNMENT COLLEGE OF	BLOCK LB, SEC III, SALT LAKE, KOLKATA – 700098, NORTH 24 PARGANAS, WEST BENGAL Telefax: (033) 2335-6977	UG	FOOTWEAR TECHNOLOGY	10
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	40
			UG	LEATHER TECHNOLOGY	30



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	ENGINEERING AND LEATHER TECHNOLOGY	Fax: (033) 2200-2444 E-mail: clt@vsnl.net	PG	LEATHER TECHNOLOGY	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	CERAMIC ENGINEERING AND TECHNOLOGY	40
			UG	COMPUTER SCIENCE & ENGINEERING	40
			UG	INFORMATION TECHNOLOGY	40
			PG	INFORMATION TECHNOLOGY	18
			PG	CERAMIC ENGINEERING AND TECHNOLOGY	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	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	INFORMATION TECHNOLOGY	60
			PG	MASTERS IN COMPUTER APPLICATIONS	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	AUTOMOBILE 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	ELECTRONICS & COMMUNICATION ENGG	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	AUTOMOTIVE TECHNOLOGY	18
			PG	ELECTRONICS & COMMUNICATION(VLSI DESIGN)	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
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	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	INFORMATION TECHNOLOGY	90
			PG	COMPUTER SCIENCE & ENGINEERING	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	120
			UG	INFORMATION TECHNOLOGY	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

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			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 AND 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	BIOMEDICAL INSTRUMENTATION	18
			PG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	18
			PG	MOBILE COMMUNICATION AND NETWORK TECHNOLOGY	18
			PG	NANO SCIENCE & TECHNOLOGY	18
			PG	SOFTWARE ENGINEERING	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	60
			PG	PHARMACOLOGY	18
			PG	PHARMACEUTICS	18
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 COMMUNICATION ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	120
			UG	MECHANICAL ENGINEERING	60
			PG	BIOTECHNOLOGY	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
126	HERITAGE INSTITUTE OF TECHNOLOGY	994, MADURDAHA, CHOWBAGA ROAD, ANADAPUR P.O. EAST KOLKATA TOWNSHIP, KOLKATA SOUTH 24 PARGANAS, WEST BENGAL 700107 Tel: (033) 2443-0454/56/57/1255 - 58 Fax: (033) 2443-0455/1259 E-mail: admin@heritageit.edu	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	BIOTECHNOLOGY	60
			UG	CHEMICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	180
			UG	MECHANICAL ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	180
			UG	ELECTRICAL ENGINEERING	60
			PG	VLSI	18
			PG	INFORMATION TECHNOLOGY	18
			PG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18
			PG	BIOTECHNOLOGY	18
			PG	COMPUTER SCIENCE AND ENGINEERING	36



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			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
			PG	STRUCTURAL ENGINEERING	18
			PG	VLSI AND MICROELECTRONICS	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
129	BHARATIYA 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 <sup>ND</sup> SHIFT)	60
			PG	FOOD TECHNOLOGY	18
			PG	VLSI AND MICROELECTRONICS	18
			PG	CIVIL ENGINEERING	18
			PG	ELECTRICAL ENGINEERING (2 <sup>ND</sup> 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	60
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			PG	ELECTRONICS AND COMMUNICATION ENGINEERING	18
132	BHOLANANDA NATIONAL ACADEMY (FORMERLY ADVANCED INST. OF MODERN MGMT. & TECH.)	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	BTMM	60
			UG	B.SC IN MEDIA SCIENCE	60
			UG	BBA (SPORTS MANAGEMENT)	60
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	JUDGES COURT ROAD OPPOSITE	PG	BUSINESS ADMINISTRATION	120

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	INSTITUTE OF MANAGEMENT	ALIPORE TELEPHONE EXCHANGE ALIPORE 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 (FT) 1 <sup>ST</sup> SHIFT	30
			PG	MASTERS IN BUSINESS ADMINISTRATION (PT) 1 <sup>ST</sup> SHIFT	15
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	B.OPTOM (BACHELOR OF OPTOMETRY)	40
142	MEGHANAD SAHA INSTITUTE OF TECHNOLOGY	TECHNO COMPLEX, MADURDAH, 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	GEO TECHNICAL ENGINEERING	18
			PG	ELECTRONICS & COMMUNICATION ENGG	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
143	GURUNANK 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	FOOD TECHNOLOGY	18
			PG	POWER ELECTRONICS AND DRIVES	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
144	NEOTIA INSTITUTE OF TECHNOLOGY, MANAGEMENT AND SCIENCE	DIAMOND HARBOUR ROAD P.O.: AMIRA SOUTH 24 PARGANAS WEST BENGAL PIN-743368 Tel: (03174) 245078/101/354 E-mail: info@itmeindia.org	UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
145	TECHNO INDIA INSTITUTE OF TECHNOLOGY	MOUZA – DHAPA, MANPUR, J.L. NO. 1, WARD NO. 108, KOLKATA E-mail: info@technoindiagroup.com	UG	BBA	60
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	60
148	FUTURE INSTITUTE OF ENGINEERING AND MANAGEMENT	SONARPUR STATION ROAD, DIST.-SOUTH 24 PRGS., KOLKATA 700150 Tel: (033) 2434-5615/5640 Fax: (033) 2434-5641 E-mail: director@fiemonline.org / official@fiemonline.org	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	60
			PG	BUSINESS ADMINISTRATION	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
149	NSHM COLLEGE OF	ARRAH SHIVTALA, VIA MUCHIPARA, DURGAPUR, DIST. BURDWAN, WEST BENGAL, PIN –	UG	BCA	90
			UG	B.OPTOM (BACHELOR OF OPTOMETRY)	90
			UG	BBA (HOSPITAL MANAGEMENT)	120



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	MANAGEMENT & TECHNOLOGY	713212 Tel: (0343) 2533813/814/815, 2561045 Email: info@nshm.com	UG UG UG PG PG PG	BBA BTMM BHM M.SC IN COMPUTER SCIENCE M.SC IN APPLIED MATHEMATICS MHA (MASTER OF HOSPITAL ADMINISTRATION)	120 30 60 30 30 30
150	NOPANY INSTITUTE OF MANAGEMENT STUDIES	2-D, NANDO MULLICK LANE, KOLKATA – 700 006 Tel: (033) 2533-8503, 3259-0283 Fax: (033) 2543-7168 Email: director@nopanyinstituteofmanagementstudies.com	UG UG UG	BCA BBA BBA (HOSPITAL MANAGEMENT)	60 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	BCA BBA BBA (HOSPITAL MANAGEMENT) M.SC IN COMPUTER SCIENCE	120 90 60 30
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
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
157	NATIONAL POWER TRAINING INSTITUTE (ER)	MICHAEL FARADAY STREET, CITY CENTRE, DURGAPUR, PIN – 713216 BARDHAMAN, WEST BENGAL Tel: (0343) 2546237, 2546887 Telefax: (0343) 2545888	UG	POWER 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	90
			UG	CIVIL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	120
159	CALCUTTA INSTITUTE OF PHARMACEUTICAL 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	120
			PG	PHARMACOLOGY	18
			PG	PHARMACEUTICS	18
			PG	PHARMACEUTICAL BIOTECHNOLOGY	18
160		BLOCK-FC, SECTOR-I177	PG	MANUFACTURING TECHNOLOGY	28

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	NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH, KOLKATA	II, SALT LAKE Tel: (033) 2337-0937/0479/4125 Fax: (033) 2337-6331/6290 E-mail: director_nittr_kol@yahoo.com	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 UG	B.OPTOM (BACHELOR OF OPTOMETRY) BBA (HOSPITAL MANAGEMENT)	30 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	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	90
			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
			PG	MASTERS IN COMPUTER APPLICATIONS	30
164	GEORGE COLLEGE OF MANAGEMENT AND SCIENCE	BUDGE BUDGE TRUNK ROAD CHALKMIR, MAHESHTALA, KOLKATA - 700 141 Tel: (033) 2401-2289 Telefax: (033) 24018687 E-mail: enquiry@georgecollege.org	UG	BBA	90
			UG	BCA	60
			UG	B.OPTOM (BACHELOR OF OPTOMETRY)	40
			UG	BBA (HOSPITAL MANAGEMENT)	60
			UG	BBA (INSURANCE & RISK MANAGEMENT)	60
			UG	BBA (SUPPLY CHAIN MANAGEMENT)	60
			UG	B.TM	60
			UG	B. SC IN MEDIA SCIENCE	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.org	UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	INFORMATION TECHNOLOGY	60
			UG	INSTRUMENTATION AND CONTROL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	60
167	MANAGEMENT INSTITUTE OF DURGAPUR	G T ROAD, RAJBANDH, DURGAPUR-713212 DIST.BURDWAN Tel: (0343) 2520712/713/880 Fax: (0343) 2520881 E-mail: mid@rahulfoundation.edu.in / midraj@sancharnet.in	PG	MASTERS IN BUSINESS ADMINISTRATION (FULL TIME)	120
			PG	MASTERS IN BUSINESS ADMINISTRATION (PART TIME)	60
			PG	MASTERS IN COMPUTER APPLICATIONS	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	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	30
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	30
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	CIVIL ENGINEERING	60
169	ACADEMY OF TECHNOLOGY	G.T. ROAD, ADISAPTAGRAM P.O.: AEDCONAGAR DIST-HOOGHLY WEST BENGAL 712121 Tel: (033) 2684-0002/003 Telefax: (033) 2684-2888 E-mail: Baidyanathbiswas@yahoo.com	UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	120
			PG	COMPUTER SCIENCE & ENGINEERING	18
			PG	ELECTRICAL ENGINEERING	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
170	IMPS COLLEGE OF	VILL-NITYANANDAPUR P.O.- CHANDIPUR(KAZIGRAM) DIST-	UG	CIVIL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60



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	ENGINEERING & TECHNOLOGY	MALDA PIN-732103 WEST BENGAL Tel: (03512) 271555/251272 Telefax: (03512) 278115 E-mail: impscet@sancharnet.in	UG	ELECTRICAL ENGINEERING	60
171	ARYABHATT A INSTITUTE OF ENGINEERING & MANAGEMENT DURGAPUR	VILL.: PANAGARH GRAM; P.O.: PANAGARH BAZAR; DIST -BURDWAN; STATE : WEST BENGAL, 713148 Tel: (0343) 2526415/16 Telefax: (0343) 2526417 E-mail: aiem@sancharnet.in	UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	90
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	MECHANICAL ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			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	UG	BBA	60
			UG	BCA	60
			UG	BBA (HOSPITAL MANAGEMENT)	60
174	NETAJI SUBHAS CHANDRA BOSE INSTITUTE OF PHARMACY	TATLA, ROYPARA P.O. CHAKDAHA DIST. NADIA WEST BENGAL - 741222 Tel: (03473) 285448 Fax: (03473) 240198 E-mail: nscbp2004@yahoo.co.in	UG	PHARMACY	60
			PG	PHARMACEUTICAL CHEMISTRY	10
			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 MANAGEMENT)	60
			PG	MASTER OF MANAGEMENT STUDIES (PHARMACEUTICAL MANAGEMENT)	36
			UG	BBA	60
			UG	B.Optom (BACHELOR OF OPTOMETRY)	30
			UG	B.SC IN GAMING & MOBILE APPLICATION DEVELOPMENT	60
			PG	M.SC IN HUMAN COMPUTING & ARTIFICIAL INTELLIGENCE	18
			PG	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	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	CALCUTTA INSTITUTE OF TECHNOLOGY	BANITABLA, ULUBERIA, HOWRAH-711316 Tel: (033) 2661-0499 E-mail: cit_ulb@yahoo.co.in	UG	CHEMICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			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	INTERNATIONAL INSTITUTE OF MANAGEMENT SCIENCES	NH-6, BOMBAY ROAD, (OPP.: BISK PHARM), PALARA, PO-MAHISHREKHA, ULUBERIA, HOWRAH, PIN-711303, WEST BENGAL Tel: (033) 2337-2592 Fax: (033) 2334-9183	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	60
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	UG	BHM	120

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		E-mail: nipsal@vsnl.com			
182	INSTITUTE OF SCIENCE AND TECHNOLOGY	DHURABILA, DHAMKURIA, CHANDRAKONA TOWN, PASCHIM MEDNIPUR, WEST BENGAL, 721201. Tel: (03225) 267288 Telefax: (03225) 266644 E-mail: pradip_dgp6@indiatimes.com	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
			UG	MECHANICAL ENGINEERING	60
			PG	CIVIL ENGINEERING	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	ELECTRONICS & COMMUNICATION ENGG	18
			PG	MASTERS IN COMPUTER APPLICATIONS	60
183	EASTERN INSTITUTE FOR INTEGRATED LEARNING IN MANAGEMENT	6 WATERLOO STREET, 2 <sup>ND</sup> FLOOR, KOLKATA – 700 069 Tel: (033) 2210-0911 Fax: (033) 2210-0909 E-mail: eiilm@vsnl.com	UG	BBA	30
185	GURUNANK INSTITUTE OF HOTEL MANAGEMENT	157/F NILGUNJ ROAD, KOLKATA, NORTH 24 PARGANAS, WEST BENGAL, 700114 Telefax: + 91 33 2523-1246	UG	HOTEL MANAGEMENT & CATERING TECHNOLOGY	60
186	GURUNANK INSTITUTE OF PHARMACEUTICAL SCIENCE & TECHNOLOGY	157/F, NILGUNJ ROAD, KOLKATA - 700114 Ph. 91 33 2523-1247 Email: info@gnipst.ac.in	UG	PHARMACY	120
			PG	PHARMACEUTICAL CHEMISTRY	18
			PG	PHARMACOLOGY	18
			PG	PHARMACEUTICS	18
187	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	PG	MASTERS IN COMPUTER APPLICATIONS	60
189	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: berep_dgp@yahoo.co.in	UG	PHARMACY	120
			PG	PHARMACEUTICS	18
			PG	PHARMACOLOGY AND TOXICOLOGY	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		UG	PHARMACY	120
			PG	PHARMACOLOGY	18



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	TECHNOLOGY	SUGANDHA, DELHI ROAD NEAR CHINSURAH RLY. STATION, HOOGHLY, PIN-712102 Tel: (033) 2686-6064/2027 Fax: (033) 2686-2482	PG PG	PHARMACEUTICS PHARMACEUTICAL ANALYSIS	18 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 UG UG UG PG	BBA BCA BBA (HOSPITAL MANAGEMENT ) BTTM MHA (MASTER OF HOSPITAL ADMINISTRATION)	60 60 60 30 60
195	THE CALCUTTA ANGLO GUJARATI COLLEGE	29 POLLOCK STREET, KOLKATA – 700 001 Tel: (033) 2235-1585 Fax: (033) 2211-4247 E-mail: cagcollege@rediffmail.com	UG UG	BBA BCA	60 60
198	ADVANCED INFORMATION & MANAGEMENT STUDIES	Z.P. AVENUE, SAGARBHANGA, ZONAL CENTRE, DURGAPUR, DIST: BURDWAN, PIN – 713211, W.B. Ph. 0343-25591 26/27 E-mail: response@aimssyndicate.org	UG UG UG UG UG	BHM BTTM BBA BCA BBA (HOSPITAL MANAGEMENT )	60 60 30 30 30
199	DOOARS ACADEMY OF TECHNOLOGY AND MANAGEMENT	NEW ALIPURDUAR STATION, ALIPURDUAR, JALPAIGURI – 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	DEBHOJ, CITY CENTRE, HALDIA – 721 657, MIDNAPORE (EAST) Tel: (03224) 252020/252688, 9831780919 Fax: (03224) 252622cera E-mail: golden_regency@yahoo.com	UG UG	BHM BBA	60 60
201	BCDA COLLEGE OF PHARMACY AND 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 UG PG	BBA BCA BHM BBA (HOSPITAL MANAGEMENT ) M.SC IN INFORMATION SCIENCE	60 60 45 30 20
206	SEACOM ENGINEERING COLLEGE	JALADHULAGORI SANKRAIL PO: ANDUL MOURI HOWRAH-711302 Tel: (033) 2679-0481/82/83 Fax: (033) 2679-0480 E-mail: seacomengineering@rediffmail.com	UG UG UG UG UG UG UG UG PG PG	CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG INFORMATION TECHNOLOGY MARINE ENGINEERING MECHANICAL ENGINEERING MASTERS IN BUSINESS ADMINISTRATION MASTERS IN COMPUTER APPLICATIONS	60 60 60 90 60 60 90 60 60
208	BHARAT TECHNOLOGY	JADURBERIA, BANITABLA, ULUBERIA, PIN-711316 Tel: (033) 2709-4430 Fax: (033) 2661-0736 E-mail: anjali_hect@rediffmail.com	UG	PHARMACY	120
209	DREAM INSTITUTE OF	P.O. NAHAZARI, P.S.: BISHNUPUR, 24 PARGANAS (SOUTH), KOLKATA 700104 Tel: (033) 3093-6088	UG UG UG UG	CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG	60 60 120 120

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	TECHNOLOGY	Fax: (033) 2398-0244 E-mail: dream_institute_of_technology@hotmail.com	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 PG UG UG UG UG UG PG	M.SC IN GENETICS M.SC IN BIOTECHNOLOGY B.SC. IN BIOTECHNOLOGY B.SC. IN MICROBIOLOGY B.SC. IN GENETICS B.SC. IN MOLECULAR BIOLOGY BCA M.SC IN MICROBIOLOGY	20 30 60 30 30 30 30 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 PG	BBA (HOSPITAL MANAGEMENT) MHA (MASTER OF HOSPITAL ADMINISTRATION)	30 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 UG UG UG	BBA BCA B.SC. IN BIOTECHNOLOGY B.SC. IN MICROBIOLOGY	60 60 20 20
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 UG UG PG	BBA BCA B.SC IN MEDIA SCIENCE M.SC IN MEDIA SCIENCE	60 120 60 30
214	SEACOM MANAGEMENT COLLEGE	JALADHULAGORI, SANKRAIL, HOWRAH – 711 302 Tel: (033) 6513-7392 Fax: (033) 2430-9308	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	UG UG UG	BHM BBA BCA	90 60 60
216	ABS ACADEMY OF SCIENCE, TECHNOLOGY & MANAGEMENT	J.P. AVENUE, SAGARBHANGA, DURGAPUR: 713211 DISTRICT - BURDWAN WEST BENGAL Tel: (0343) 2550697/98 Fax: (0343) 2550699	PG	MASTERS IN BUSINESS ADMINISTRATION	60
220	PRAJNANANDA 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	HB – 203, SALT LAKE CITY, KOLKATA – 700 106 Telefax: (033) 2337-2122 E-mail: admission@gurukulstudies.com	UG UG	BHM 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 UG	BBA BCA BTM BHM	60 30 30 30



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	NT				
230	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	MECHANICAL ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			PG	MASTERS IN COMPUTER APPLICATIONS	60
231	CAMELLIA SCHOOL OF BUSINESS MANAGEMENT	DIGBERIA, BADU ROAD, MADHYAMGRAM, KOLKATA-700129 Tel: (033) 6455-1145/1146 E-mail: cbsm@vsnl.net	PG	MASTERS IN BUSINESS ADMINISTRATION	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	BBA	120
			UG	BBA (SUPPLY CHAIN MANAGEMENT)	60
			UG	BCA	90
			UG	BBA (HOSPITAL MANAGEMENT)	60
			UG	B.OPTOM (BACHELOR OF OPTOMETRY)	60
			UG	BHM	60
			UG	B.SC IN MEDIA SCIENCE	120
			UG	B.SC IN FASHION DESIGN & MANAGEMENT	60
			UG	B.SC IN MULTIMEDIA, ANIMATION & GRAPHICS	60
			PG	M.SC IN MEDIA SCIENCE	60
			PG	M.SC IN COMPUTER SCIENCE	30
			PG	M.SC IN APPLIED MATHEMATICS	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	90
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	90
			UG	INFORMATION TECHNOLOGY	60
			UG	CIVIL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
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	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	CIVIL ENGINEERING	120
			UG	INFORMATION TECHNOLOGY	60
			UG	MECHANICAL ENGINEERING	120
			UG	ELECTRICAL ENGINEERING	120
			PG	CIVIL ENGINEERING	18
240	ABACUS INSTITUTE OF ENGINEERING AND MANAGEMENT	VILL-NUTANGRAM; P.O-MOGR; 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	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

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	& TECHNOLOGY		UG	CIVIL ENGINEERING	60
			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	120
			PG	PHARMACEUTICS	18
243	WEST BENGAL STATE COUNCIL FOR SCIENCE & TECHNOLOGY	BIKASH BHAVAN, (4 <sup>th</sup> floor), SALT LAKE, KOLKATA –7000 91	PG	POST GRADUATE DIPLOMA IN GEOINFORMATICS	12
244	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	60
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60
			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
247	INSTITUTE OF INTERNATIONAL TRADE	6 WATER LOO STREET, 3 <sup>RD</sup> FLOOR, KOLKATA – 69 Tel: (033) 2243-6504, 2231-6945 Fax: (033) 2243-7688 E-mail: info@iitrade.ac.in	UG	BBA	50
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
252	KANAD INSTITUTE OF ENGINEERING & MANAGEMENT	VILLAGE+P.O.-MANKAR, DIST-BURDWAN, MANKAR, BARDHAMAN, WEST BENGAL 713144 Tel: (0343) 2517137/38 E-mail: kanadinstituteofengg@gmail.com	UG	CIVIL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	MECHANICAL ENGINEERING	120
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	60
			UG	ELECTRICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	120
			UG	MECHANICAL ENGINEERING	120
			UG	COMPUTER SCIENCE AND ENGINEERING	120
			PG	ELECTRONICS AND COMMUNICATION ENGG	18
			PG	ELECTRICAL ENGINEERING	18
			PG	COMPUTER SCIENCE AND ENGINEERING	18
			PG	MASTERS IN BUSINESS ADMINISTRATION	60
254	TECHNO INDIA DURGAPUR	BEHIND B.D.O OFFICE, P.O.- PANAGARH BAZAR DIST.- BURDWAN, PIN-713148 (W.B.) DURGAPUR Tel: (0343) 2524038/039/041 Fax: (0343) 2524400	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



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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
			PG	MECHANICAL ENGINEERING	18
			PG	COMMUNICATION ENGINEERING	18
257	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT	HALDER DIGHI, G.T. ROAD, BAINCHI, DIST.- HOOGHLY, WEST BENGAL – 712134 Ph. (03213) 271339 / 9007030180	UG	CIVIL ENGINEERING	120
			UG	MECHANICAL ENGINEERING	120
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
258	TECHNO INDIA-BALURGHAT	MANGALPUR, NEAR DISTRICT JAIL, PO: BELTALA PARK, P.S.-BALURGHAT, DIST. SOUTH DINAJPUR, WEST BENGAL, 733103 Tel: (0352) 2271101	UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	INFORMATION TECHNOLOGY	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE AND ENGINEERING	60
			UG	CIVIL 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	MECHANICAL ENGINEERING	60
			UG	ELECTRONICS & COMMUNICATION ENGG	60
			UG	ELECTRICAL ENGINEERING	60
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	120
260	BENGAL COLLEGE OF ENGINEERING (FORMERLY BENGAL COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN)	SHILPO KANAN ROAD, BIDHANNAGAR, DURGAPUR - 713212. Tel: 0343-6512190, 2532606 Fax: 0343-2533186, 2533242 E-mail: skset_dgp@rediffmail.com	UG	COMPUTER SCIENCE AND ENGINEERING	90
			UG	ELECTRICAL ENGINEERING	60
			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
			PG	MASTERS IN BUSINESS ADMINISTRATION	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

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			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 MANAGEMEN NT	BALINDI, NO. - 7 MOUJA HARINGHATA, NEAR KALYANI MORE, PIN – 741 246 Ph. 03473-279195/196, 9331881914 E-mail: dolphin_kalyani@yahoo.co.in	UG	BHM	60
266	BENGAL SCHOOL OF TECHNOLOGY & MANAGEMEN NT	SUGANDHA, DELHI ROAD, HOOGHLY – 712 102 Ph. 033 2686-4913/2027/6064 Telefax: 033 2686-4281 E-mail: management.bst@gmail.com	UG UG UG UG	BCA BHM BTMM BBA	60 60 60 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 UG	MECHANICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG ELECTRICAL ENGINEERING COMPUTER SCIENCE AND ENGINEERING CIVIL ENGINEERING APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING	60 60 60 60 60 60
270	SABITA DEVI EDUCATION TRUST – BRAINWARE GROUP OF INSTITUTIONS	398 RAMKRISHNAPUR ROAD P.S. BARASAT, KOLKATA NORTH 24 PARGANAS WEST BENGAL, 700124 Tel: 09836937446 E-mail: info@brainwaretechnologies.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 E-mail: info@camelliagroup.in	UG UG UG UG UG	COMPUTER SCIENCE & ENGINEERING CIVIL ENGINEERING ELECTRICAL ENGINEERING ELECTRONICS & COMMUNICATION ENGG MECHANICAL ENGINEERING	60 60 60 60 120
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	ELECTRICAL AND ELECTRONICS ENGINEERING ELECTRONICS & COMMUNICATION ENGG MECHANICAL ENGINEERING COMPUTER SCIENCE AND ENGINEERING CIVIL ENGINEERING ELECTRICAL ENGINEERING HOTEL MANAGEMENT & CATERING TECHNOLOGY ELECTRONICS & COMMUNICATION ENGG MASTERS IN BUSINESS ADMINISTRATION	60 60 60 60 60 60 120 18 60
275	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 UG UG UG UG UG UG	CIVIL ENGINEERING COMPUTER SCIENCE & ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING MECHANICAL ENGINEERING ARCHITECTURE B.ARCH (GENERAL)	60 60 60 60 40 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 UG UG UG UG UG PG	ELECTRICAL ENGINEERING ELECTRONICS AND COMMUNICATIONS ENGINEERING MECHANICAL ENGINEERING CIVIL ENGINEERING COMPUTER SCIENCE AND ENGINEERING MASTERS IN BUSINESS ADMINISTRATION	60 60 120 120 60 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 PG PG PG PG	PHARMACY PHARMACEUTICS PHARMACOLOGY MASTERS IN BUSINESS ADMINISTRATION MASTERS IN BUSINESS ADMINISTRATION (PART TIME)	120 24 24 120 60
278	SANAKA EDUCATIONAL TRUST'S	INSTITUTE OF ENGINEERING & INDUSTRIAL TECHNOLOGY P.O.-MALANDIGHI, DURGAPUR DIST. -	UG UG UG	ARCHITECTURE MECHANICAL ENGINEERING ELECTRICAL ENGINEERING	20 60 60



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	GROUP OF INSTITUTIONS	BURDWAN, WEST BENGAL, 713212 Tel: 09434006128	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, WEST BENGAL, PIN CODE- 741235 Tel: (033) 2502-5628/29 Fax: (033) 2502-5630 E-mail: info@idealinstituteofengineering.com	UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
			UG	MECHANICAL ENGINEERING	60
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	30
			UG	MECHANICAL ENGINEERING	90
			UG	ELECTRICAL AND ELECTRONICS ENGINEERING	30
			UG	COMPUTER SCIENCE & ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			PG	VLSI DESIGN	09
			PG	CAD/CAM	09
			PG	MASTERS IN BUSINESS ADMINISTRATION	120
			PG	MASTERS IN COMPUTER APPLICATIONS	120
287	ROCKVALE MANAGEMENT COLLEGE	9 <sup>TH</sup> MILE, RESHI ROAD, KALIMPONG, DARJEELING Tel: +91-3552 259959 E-mail: principal@rockvaleacademy.com	UG	BBA	60
			UG	BCA	60
			UG	BTTM	30
289	ILEAD (INSTITUTE OF LEADERSHIP ENTREPRENEURSHIP & DEVELOPMENT)	113J, MATHESWARTOLA ROAD (NEAR PARK REGENCY HOTEL), KOLKATA 700046 Ph. +91-033 4018-2000 / 9830015201	UG	BBA	120
			UG	B.SC. IN MEDIA SCIENCE	120
			PG	M.SC IN MEDIA SCIENCE	60
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: director@ihrmedu.org	UG	BBA	60
			UG	BHM	60
			UG	BCA	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	BCA	120
			UG	BBA	120
294	FUTURE INSTITUTE OF ENGG.	SONARPUR STATION RD., R.K. PALLY, KOLKATA – 150	UG	BCA	60
			UG	BBA	60
			UG	B.SC IN MEDIA SCIENCE	60

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	AND MANAGEMENT		UG PG PG	BBA (HOSPITAL MANAGEMENT ) M.SC IN MEDIA SCIENCE MHA (MASTER OF HOSPITAL ADMINISTRATION)	60 60 30
295	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY (MCA DIVISION)	BENGAL PAILAN PARK, PHASE-I, AMGACHIA ROAD, JOKA(OFF DIAMOND HARBOUR ROAD), KOLKATA-70014 Tel: (033) 24978006/007, 2453-5605 Fax: (033) 2453-5604 E-mail: pcmt@pcmt-india.net	PG	MASTERS IN COMPUTER APPLICATIONS	60
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	60
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	BBA BCA B.OPTOM (BACHELOR OF OPTOMETRY) BBA (HOSPITAL MANAGEMENT ) BHM B.SC IN MEDIA SCIENCE BTTM	75 75 20 90 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 INFORMATION 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
302	BENGAL INSTITUTE OF TECHNOLOGY (MCA)	BAMUNGHATA, ON BASANTI HIGHWAY, KOLKATA-700150	PG	MASTERS IN COMPUTER APPLICATIONS	60
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



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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 UG UG UG UG UG UG PG PG	BBA BCA B.OPTOM (BACHELOR OF OPTOMETRY) BBA (HOSPITAL MANAGEMENT ) B.SC IN MEDIA SCIENCE BBA (INSURANCE & RISK MANAGEMENT) BHM BTTM BBA ( SUPPLY CHAIN MANAGEMENT) M.SC IN INFORMATION SCIENCE MHA (MASTER OF HOSPITAL ADMINISTRATION)	120 120 20 60 120 60 60 60 60 30 60 60
310	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY	MADURDAHA, UCHHAPOTA, KOLKATA – 700 150	UG UG	BBA BCA	120 120
311	GURUNANK INSTITUTE OF TECHNOLOGY	157/F NILGANJ RD., PANIHATI, 24 PGS(N)- 743176	UG UG UG	BBA (HOSPITAL MANAGEMENT ) BCA BBA	60 60 60
312	GURUNANK INSTITUTE OF HOTEL MANAGEMENT	157/ NILGUNJ ROAD, PANIHATI, W.B. Tel: (033) 2523-1246 Fax: (033) 2289-3945 E-mail: samapika@jisgroup.org	UG	BHM	120
313	GURUNANK 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 UG UG UG PG PG PG	BBA (HOSPITAL MANAGEMENT ) B.SC. IN BIOTECHNOLOGY B.SC. IN MICROBIOLOGY B.SC IN GENETICS M.SC IN BIOTECHNOLOGY M.SC IN GENETICS M.SC IN MICROBIOLOGY	30 40 40 30 30 30 30
314	TECHNO INDIA COLLEGE OF TECHNOLOGY	MEGHA CITY, NEW TOWN, KOLKATA Tel: (033) 27062050 Telefax: (033) 27062060 E-mail: info@ticollege.org	UG UG	BBA BCA	60 60
316	JIS COLLEGE	BLOCK-A, PHASE III, KALYANI, NADIA, WEST BENGAL, 741235	PG	MASTERS IN COMPUTER APPLICATIONS	60

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	OF ENGINEERING				
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 UG	BBA BCA	120 100
319	BHARAT TECHNOLOGY	JADURBERIA, ULUBERIA, HOWRAH – 711 316	UG UG	BBA BCA	60 60
320	SAROJ MOHAN INSTITUTE OF TECHNOLOGY	GUPTIPARA, HOOGHLY, PIN – 712 512	UG UG UG	BBA BCA BBA (HOSPITAL MANAGEMENT)	30 30 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 PG PG	BBA BCA BBA (HOSPITAL MANAGEMENT) M.SC IN INFORMATION SCIENCE M.SC IN APPLIED MATHEMATICS	120 120 60 30 30
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	ARYABHATT A INSTITUTE OF ENGG. & MANAGEMENT	PANAGARH, P.O. PANAGARH BAZAR, BURDWAN – 713148	UG UG UG	BBA BCA BHM	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	BBA BCA BHM	60 60 60
329	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT	SRINIKETAN BYPASS, DORANDA, BIRBHUM – 731236	UG UG UG	BBA BCA BHM	60 60 60
330	MURSHIDABAD COLLEGE OF ENGG.	BANJETIA, MURSHIDABAD – 742 102 Ph. 03482-275603/275233 Telefax: 03482-275603	UG UG	BBA BCA	60 60



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	AND TECHNOLOGY				
331	DUMKAL INSTITUTE OF ENGG. & TECHNOLOGY	P.O. BASANTAPUR, MURSHIDABAD – 742 406	UG UG	BBA BCA	60 60
332	TECHNO INDIA – BATANAGAR (FORMERLY BATANAGAR INSTITUTE OF ENGINEERING, MANAGEMENT AND SCIENCE)	PUTKHALI, WARD NO.-30, HOLDING NO.-B7-360/NEW, MAHESHTALA, SOUTH 24 PARGANAS, WEST BENGAL, 700141 Tel+Fax: (033) 2490-0002/2490-0011 E-mail: biems@batanagarinstitute.com	UG	MECHANICAL ENGINEERING	60
			UG	ELECTRICAL ENGINEERING	60
			UG	CIVIL ENGINEERING	60
			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	PG	MASTERS IN BUSINESS ADMINISTRATION (GENERAL MANAGEMENT)	60
334	SILIGURI INSTITUTE OF TECHNOLOGY	HILL CART ROAD, P.O. - SUKHNA, DIST. - DARJEELING	UG UG UG	BCA BBA BHM	120 120 30
335	SILIGURI INSTITUTE OF TECHNOLOGY (HMCT)	HILL CART ROAD, SUKNA SILIGURI, DARJEELING, WEST BENGAL, 734009	UG	HOTEL MANAGEMENT & 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 BHM	40 40 90
338	IIAS SCHOOL OF MANAGEMENT - SILIGURI	IIAS SCHOOL OF MANAGEMENT, NEAR PINTAIL VILLAGE, DAGAPUR, P.O. PRADHANNAGAR, SILIGURI, (W.B), PIN – 734003 Ph. 0353-2516335 / 9674744820 Fax: 0353-2516335 E-mail: slg_iiassil@bsnl.in	UG UG UG	BBA BCA BHM	40 30 60
339	BHARATIYA VIDYA BHAVAN 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 BHM	60 30
341	SBIHM	JAGANNATHPUR ROAD, NEAR	UG	BHM	60

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	SCHOOL OF MANAGEMENT	BARASAT STATE UNIVERSITY P.O. MALIKAPUR P.S. BARASAT, KOLKATA - 700 126. Ph. 9830012536/2359-8508 E-mail: hrd_sbhm@yahoo.in	UG UG UG UG UG	BBA BCA BBA (HOSPITAL MANAGEMENT ) B.SC IN MEDIA SCIENCE BTMM	60 60 60 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 UG	CIVIL & ENVIRONMENTAL ENGINEERING CIVIL ENGINEERING MECHANICAL ENGINEERING COMPUTER SCIENCE & ENGINEERING FOOD TECHNOLOGY	60 60 60 60 60
344	INSPIRIA KNOWLEDGE CAMPUS	HIMACHAL VIHAR – PHASE II, MATIGARA, SILIGURI – 734010, DISTRICT – DARJEELING, WEST BENGAL. Ph. +913532571111/1257 E-mail: contact@inspiria.net.in	UG UG UG UG	BBA BCA B.SC IN MEDIA SCIENCE BHM	60 60 60 60
345	GLOBAL COLLEGE OF SCIENCE AND TECHNOLOGY	PALPARA MORE, NH – 34, KRISHNAGAR, NADIA, PIN – 741102.	UG UG PG	BHM BCA M.SC IN APPLIED MATHEMATICS	60 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 60 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	BBA BCA	60 60
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	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



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351	SWAMI VIVEKANAN DA 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	BBA	60
			UG	BCA	60





### Industrial Visits by Students

