

Compliance Report for Mandatory Disclosure as per AICTE Norms

1.	Name of the Institution Address of the Institution Phone number with STD CodeMobile number Email:	Hemnalini Memorial College Of Engineering Gate No7, Balindi, Near BSF Camp,Haringhata, Nadia-741246 8017656252 skb985@gmail.com
2.	Name & Address of the Trust Mobile number Email:	Bhattacharya Engineering Education And Research Trust 274, BARAJONEPUR, P.S. BIZPUR.,KANCHRAPARA,NADIA, West Bengal,743145 8017656252 skb985@gmail.com
3.	Name and Address of the Principal Mobile number Email:	Dr. Sanjoy kumar Bhattacharya 9903205182 Skb985@gmail.com
4.	Name of the affiliating University	Maulana Abul Kalam Azad University of Technology (MAKAUT), WB.

1. Governing Body

- Members of the Board and their brief background**

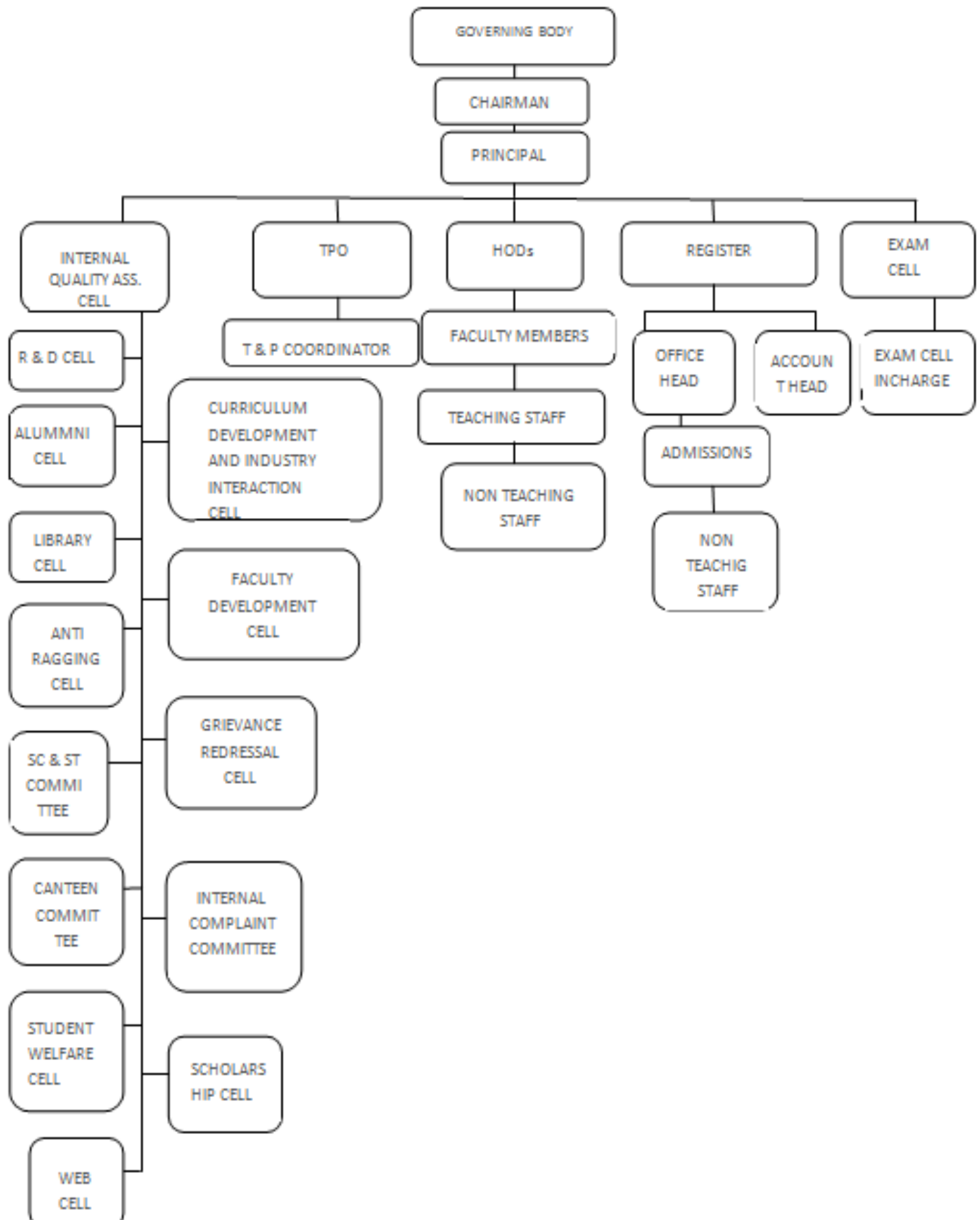
Malobika Bhattacharya	Chairman
Dr. Sanjoy Kumar Bhattacharya	Member
Dr. Dinabandhu Ghosh	Member (Ex-Officio)
Eastern Regional Officer AICTE, Kolkata	Member (Ex-Officio)
Nominee of MAKAUT, WB	Member (Ex-Officio)
Dr. Ashok Mukherjee,	Member

Prof. (Dr.) Santanu Das Professor, Kalyani Government Engineering College	Invitee
Prof. (Dr.) Malay Kumar Samanta Principal, GCPT	Invitee

- **Members of the Academic Advisory Body:**

Sl. No.	Name
1.	Dr. Ashok Mukherjee, Academic Director, HMCE
2.	Dr. Dinabandhu Ghosh, Ex-Professor ME Dept. JU
3.	Dr. Sujit Majumder, Professor & Principal –in-charge, HMCE
4.	Dr. Gourav Dhar Bhowmik , Professor, IIT, Kharagpur
5.	Safath khan, Manager (Training), NSIC
<ul style="list-style-type: none"> • Frequency of the Board meeting and the Academic Advisory 	
Twice in a year	

2. Organizational Chart:



- A. Establishment of Grievance Redressal Committee in the Institution and Appointment OMBUDSMAN by the University:** We have already requested the affiliating university for the said appointment. The final appointment is yet under process.
- B. Establishment of Internal Complaint Committee (ICC):**
An Internal Complaint Committee has been constituted for the year 2019-20 to resolve all the matters related to General sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances, in compliance with the AICTE norms, vide no. F. AICTE/WH/2016/01, dated 10th June, 2016. The names of the Committee-Members are available in the website.
- C. Establishment of Committee for SC/ ST:**
An SC/ST Committee has been constituted for the year 2019-20 to resolve all the matters related to SC/ST faculty and students as per AICTE Norms. The names of the Committee-Members are available in the website.
- D. Internal Quality Assurance Cell:**
The Internal Quality Assurance Cell has been formed to ensure and focus institutional functioning towards quality enhancement good practices. The names of the Cell-Members are available in the website.

3. Programmes

- a. **Name of the Programmes approved by AICTE:** B.Tech Engineering
- b. **Name of Programmes Accredited by AICTE:** All the programmes are accredited by AICTE
- c. **Status of Accreditation of the Courses:** The Programmes are re-accredited for the academic session of 2021-22.
- d. **Total number of courses:** 5 Courses
- e. **No. of Courses for which applied for Accreditation:** Not Applicable
- f. **Status of Accreditation** – Preliminary
- g. **The Details of the Programme Name:** B.Tech Engineering
- h. **Number of Seats:** 660
- i. **Duration:** 4 years
- j. **Cut off marks/ rank of admission during the last three years:** 45% in PCM & 35% in PM
- k. **Fee:** As per the directives of the Department of Higher Education, Govt. of West Bengal
- l. **Placement Facilities:** Available
- m. **Campus Placement in last three years average salary:**

Name of the Programme	2018-19	2019-20	2020-21
B.Tech	52.21%	65.20%	66.26%
Salary	Average: 2.86 LPA	Average: 2.45 LPA	Average: 2.29 LPA



Hemnalini Memorial College of Engineering

Gate No. 7, Balindi, Haringhata, (Near BSF Camp, Jaguli Kalyani More, Pin-741246)
City Office : 4C And Roy Road, Kolkata - 700029

Website : www.hmcekalyani.org Or Call : +91 8017656252 | +91 9903205182

(Approved by AICTE & Affiliated to MAKAUT, WB)

Ref: HMCE/PLC/INF/01/2019-21

Date: 16-03-2022

Dear Sir/Ma'am,

As suggested extending you herewith the placement information of our four year eight semesters (three year six semesters for lateral candidates) full time Bachelor of Technology (B.Tech.) for last three academic sessions, furnished in following table:

Year	Department	No: of Enrolled Students	No: of Students Placed	% of Students Placed	Average Salary Package
2019	Mechanical Engineering	40	18	45.00	3.25
	Food Technology	10	6	60.00	3.12
	Civil Engineering	68	31	48.53	2.58
	Computer Sc. & Engineering	1	0	0.00	0
	Civil and Environmental	17	14	82.35	2.9
	Total		136	71	52.21
2020	Mechanical Engineering	65	48	73.85	2.44
	Food Technology	35	29	82.86	1.65
	Civil Engineering	68	31	45.59	2.42
	Computer Sc. & Engineering	12	8	66.67	3.68
	Civil and Environmental	24	17	70.83	3.32
	Total		204	133	65.20
2021	Mechanical Engineering	51	23	45.10	2.85
	Food Technology	50	37	74.00	1.92
	Civil Engineering	49	41	83.67	2.18
	Computer Sc. & Engineering	6	3	50.00	3.45
	Civil and Environmental	7	4	57.14	2.67
	Total		163	108	66.26

Thanks & Regards,

Suvarnil Banerjee

Suvarnil Banerjee

Training & Placement Information



- n. Name and duration of programme (s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval:
Not Applicable

4. Faculty

Computer Science & Engineering:

Name of Faculty /Teaching Staff & Designation	Qualifications	Experience & Publication	Subjects Area of Teaching
Prof. RUMA HALDER Assistant Professor & HOD	M.Tech(KU) B.Tech(RCC IIT)	Academic: 3 Years	<ul style="list-style-type: none"> Formal Language & Automata Theory Software Engineering Design & Analysis of Algorithm Data Base Management System Compiler Design Operating System
Prof .DWIJA CHAKRABORTY- Assistant Professor & TIC	M.E, B.Tech	Academic: 8 Years Publication: 03	<ul style="list-style-type: none"> Computer Organization & Architecture Formal Language & Automata Theory Operating System Unix & Shell Programming Software Engineering Artificial Intelligence
Prof .JHANTU BHADRA Assistant Professor	M.Tech,B.Tech	Academic: .6 Years	<ul style="list-style-type: none"> Data Structure & Algorithms Computer Networks Operating System Cryptography & Network Security Software Engineering
PRANAB ROY Assistant Professor	M.Tech,B.Tech	Academic: 3 Years	<ul style="list-style-type: none"> Data Base Management System Data Structure & Algorithms Design & Analysis of Algorithm Operating System E-Commerce Software Engineering

Food technology:

Name of Faculty /Teaching Staff & Designation	Qualifications	Experience & Publication	Subject Area of Teaching
Prof.BISWAJIT SINGH DEB Assistant	PhD(Pursuing) (BCKV), M.Tech(IIT)	Academic: 2 Years 9 Months Publication : 2	<ul style="list-style-type: none"> Engineering Thermodynamics Unit Operation –I (Mechanical Operations and Separation Process)

Professor and HOD	KGP)		<ul style="list-style-type: none"> • Chemistry of Food • Unit Operation –II (Transfer Processes) • Principles of Food Preservation • Food process technology – I (cereals, pulses, fruits, vegetables, spices, tea, coffee & beverages) • Food process engineering • Food process technology – III (milk and milk products) • Food process technology – IV (edible fats and oils) • Food process technology – V (bakery, confectionary and extruded foods) • Food Packaging Technology • Food Safety & Quality Management
Prof. MAUSUMI RAY Assistant Professor	PhD(Pursuing)(J U), M.Tech(GNIT,W BUT)	Academic: 3Years Publication : 06	<ul style="list-style-type: none"> • Chemistry of Food • Food Microbiology • Biochemistry & Nutrition • Principles of Food Preservation • Fermentation • Technology & Biochemical Engineering • Food process technology • Enzyme Technology
Prof. ANUPAM GHOSH Assistant Professor	M.Tech,B.Tech	Academic: 7 Years 3 Months Publication : 05	<ul style="list-style-type: none"> • Food process technology – V (bakery, confectionary and extruded foods) • Food Packaging Technology • Food Safety & Quality Management • Chemistry of Food • Food Microbiology • Biochemistry & Nutrition • Principles of Food Preservation • Fermentation • Technology & Biochemical Engineering • Food process technology • Enzyme Technology
Prof. SHAONA DATTA GHOSH Assistant Professor	M.Tech B.Tech	Academic: 9 years 7 months Publication : 03	<ul style="list-style-type: none"> • Fermentation • Technology & Biochemical Engineering • Food process technology • Enzyme Technology • Chemistry of Food • Food Microbiology • Biochemistry & Nutrition
Prof. BIJENDRA SAHOO Assistant Professor	M.Tech,B.Tech	Academic: 3 years 7 months Publication : 03	<ul style="list-style-type: none"> • Food process technology – IV (edible fats and oils) • Food process technology – V (bakery, confectionary and extruded foods) • Food Packaging Technology • Food Safety & Quality Management

			<ul style="list-style-type: none">• Fermentation• Technology & Biochemical Engineering• Food process technology• Enzyme Technology
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Civil Engineering:

Name of Faculty /Teaching Staff & Designation	Qualifications	Experience & Publication	Subject Area of Teaching
Prof.ARINDAM BAR Assistant Professor and HOD	M.Tech.(NIT SILCHAR), BE(JU)	Academic: 1.9Years Industry: 2.5 Years	<ul style="list-style-type: none"> • Hydraulics • Hydrology • Water Resources • Water Resources Engg. • Concrete Technology • Highway Engg. • Surveying • Soil mechanics • Foundation engg.
Prof. ARINDAM GHOSH Assistant Professor	M.Tech, B.Tech	Academic: 2.Year Industry: 3.Years	<ul style="list-style-type: none"> • Structural Analysis • RCC Design • Design of Steel Structure • Concrete Technology • Highway Engg. • Soil mechanics
Prof .ABHIK PAUL Assistant Professor	M.Tech.(NIT), B.Tech	Academic: 6.Years Publication : 01	<ul style="list-style-type: none"> • Water Resources Engg. • Concrete Technology • Highway Engg.
Prof .RAMA PRAMANICK Assistant Professor	M.E(JU), B.Tech.	Academic: 7 Years	<ul style="list-style-type: none"> • Soil mechanics • Foundation engg • Surveying • Transportation engg
Prof .CHHANDAM DE Assistant Professor	M.E(JU), B.Tech	Academic: 4 Years Industry: 2 years	<ul style="list-style-type: none"> • Environmental & Airpollution Engineering • Surveying • Fluid Mechanics • Pavement Design • Project Management • Soil-water Interaction
Prof .TOTAN SARKER Assistant Professor	M.Tech(NIT), B.Tech	Academic: 3Years	<ul style="list-style-type: none"> • Water supply and treatment • Wastewater engineering • Transportation engineering • Geotechnical engineering
Prof .DIBYENDU SINGHA Assistant Professor	M.Tech, B.Tech	Academic: 1 year	<ul style="list-style-type: none"> • Structural Analysis • RCC Design • Design of Steel Structure • Surveying • Technical Softwares (AutoCad, Staad Pro.) • Concrete Technology

Prof .ARNAB RUIDAS Assistant Professor	M.Tech, B.Tech	Academic: 1 years Industry: 1 Years	<ul style="list-style-type: none"> • Design of RCC Structure • Design of Steel Structure • Strength of Materials • Geotechnical Engg. • Highway Engg.
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Mechanical Engineering:

Name of Faculty /Teaching staff & Designation	Qualifications	Experience & Publication	Subject Area of Teaching
Dr. Prof. SUJIT MAJUMDAR Act. Principal	PhD Thesis sub., JU) M.Tech(KGEC) -Gold medalist)	Teaching: 12 Years Industry: 15Years Publication: 13	<ul style="list-style-type: none"> • Machining • Lubrication • Fluid Mechanics
Prof. DEBABRATA ROY HOD and Assistant Professor	M.Tech(KGEC), B.Tech	Teaching: 3.5 years Publication: 4	<ul style="list-style-type: none"> • Machining • Manufacturing and Advance Manufacturing • Research Methodology • Laser Cladding
Prof. SRUTI SEN SARMA Assistant Professor	M.Tech, B.Tech	Teaching: 14 years Industry: 03 years Publication: 58	<ul style="list-style-type: none"> • TQM • Industrial Engineering • Lean Manufacturing
Prof. ANUP VERMA Assistant Professor	M.Tech, B.Tech	Teaching: 4 years Industry: 03 years Publication: 02	<ul style="list-style-type: none"> • Manufacturing and Advance Manufacturing • Research Methodology • Laser Cladding
Prof. SAMIK MAITI Assistant Professor	M.Tech, B.Tech	Teaching: 2years Industry: 03 years Publication: 3	<ul style="list-style-type: none"> • Casting • Heat treatment • Metal Development

Prof. ARUN BOSE Assistant Professor	M.Tech, B.Tech	Teaching: 2years Industry: 19 years	<ul style="list-style-type: none"> • Casting • Heat treatment • Metal Development
Mr.SUBHANKAR MONDAL Assistant Professor	M.Tech, B.Tech	Teaching: 2years Industry: 19 years	<ul style="list-style-type: none"> • Manufacturing and Advance Manufacturing
Prof .CHIRANJIT SARKAR Assistant Professor	M.Tech(JGEC), B.Tech	Teaching: 7years Industry: 1 years	<ul style="list-style-type: none"> • Electrical Machines • Machines • Thermal Power • Basic Electrical Engineering
Prof. KALYAN MAHATO Assistant Professor	M.Tech(IISE), B.Tech	Teaching: 5years Industry: 1 years	<ul style="list-style-type: none"> • Electrical Machines • Machines • Thermal Power • Basic Electrical Engineering

Civil and Environmental Engineering:

Name of Faculty /Teaching staff & Designation	Qualifications	Experience & Publication	Subject Area of Teaching
Dr. SANJOY BHATTACHARYA Assistant Professor	Ph.D, (USA) M.E(IIT) B.Tech (JU)	Research Experience (Years)- 19 Projects Guided (PG)-24 Research Projects Guided (PhD)-12 Papers Published – (International Level)-39	<ul style="list-style-type: none"> • Sewage treatment • Air pollution control • Water resource Engg. • Waste management • Unit operation
Prof. SUVRANIL BANERJEE Assistant Professor and HOD	Ph.D (Pursuing) (IIT-G) M.E(JU) B.Tech (WBUT)	Industrial: 18 yrs	<ul style="list-style-type: none"> • Sewage treatment • Air pollution control • Water resource Engg. • Waste management • Unit operation
Prof .SANJIT BOKSHI Assistant Professor	Ph.D (Pursuing) (BCKV) M.E(IIT-KGP) B.Tech (IIT-KGP)	Teaching: 04 Years Industry: 7 Years	<ul style="list-style-type: none"> • Wastewater treatment • Environmental pollution • Sustainable developmen • Ecology and Environment

<p>Dr.ASHOK MUKHERJEE Assistant Professor</p>	<p>Ph.D MBA B.Tech</p>	<p>Teaching: 08Years Industry: 18Years</p>	<ul style="list-style-type: none"> • Sewage treatment • Air pollution control • Water resource Engg. • Waste management • Unit operation
<p>Prof. ABHISHEK DAS Assistant Professor</p>	<p>Ph.D (Pursuing) (JU) M.Tech (Kalyani University) B.Tech (WBUT)</p>	<p>Industry: 7 months</p>	<ul style="list-style-type: none"> • Wastewater treatment • Environmental pollution • Sustainable developmen • Ecology and Environment

5. Profile of Principal-in-charge



- i. Name: **Dr. Sujit Majumder**
- ii. Date of Birth: 25/12/1971
- iii. Educational Qualification: Ph.D (Mech)
- iv. Work Experience: Teaching 15 yrs. Industrial :15 yrs
- v. Area of Specialization: Manufacturing
- vi. Courses taught at Diploma and UG Level:
Modern Manufacturing, Research Methodology, Metal cutting, Manufacturing process
- vii. Research guidance
 - No. of papers published in National/International journal/Conferences: 12
 - Master: 8
 - Ph.D: 1 (Ongoing)
- viii. Projects carried out: Nil
- ix. Patents: Nil
- x. Technology Transfer: Nil
- xi. Research publications: 12
- xii. No. of Books published with details: 4

6. Fees

B-TECH 1ST YEAR GENERAL FEES STRUCTURE 2019-2020

Particulars	1 st Sem	2 nd Sem	3 rd Sem	4 th Sem	5 th Sem	6 th Sem	7 th Sem	8 th Sem
Admission Fees	25000							
Library Fees	1500	1500	1500	1500	1500	1500	1500	1500
Student's welfare, games etc.	500	500	500	500	500	500	500	500
Tuition Fees	25000	25000	25000	25000	25000	25000	25000	25000
Caution Money (Refundable)	5000							
Total:	57000	27000	27000	27000	27000	27000	27000	27000
Grand Total:	2,46,000.00 (Rupees two Lacs Forty six Thousands Only)							

- Time schedule for payment of fee for the entire programme: Semester wise during the tenure of 4 yrs (for B.Tech).
- Number of scholarship offered by the Institution, duration and amount: NA
- Criteria for fee waivers: As per the directive of WBJEEB
- Estimated cost of Boarding and Lodging in Hostels: Rs. 4000/- per month.

7. Admission

- Number of applications received during last two years for admission under Management Quota and number admitted: Nil
- Admission Procedure: As per the guidelines of WBJEEB, AICTE, MAKAUT
- Criteria and Weightages for Admission: As per the guidelines of WBJEEB, AICTE, MAKAUT
- List of Applicants: List of candidate whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats: Not Applicable.
- Results of Admission under Management seats/Vacant seats: Not Applicable.
- Information of Infrastructure and Other Resources available:
 - Number of Class Rooms and size of each: 23. Size of each classroom: 74sqm
 - Number of Tutorial rooms and size of each: 8. Size: 36sqm

- Number of Laboratories and size of each: 44. Size: 74 sqm
- Number of Drawing Halls with capacity of each: 1. Size: 140sqm
- Number of Computer Centers with capacity of each: 3. Size: 100 sqm
- Central Examination Facility, Number of rooms and capacity of each: 1 Size: 38 sqm
- Barrier Free Built Environment for disabled and elderly persons: Available
- Occupancy Certificate: Obtained from District Engineer, Nadia Zila Parishad, WB.
- Fire and Safety Certificate: Applied for NOC
- Hostel Facilities: Yes
- Library:
- Number of Library books/ Titles/ Journals available (program-wise): B.Tech: 12585 (Title).
Number of books: 12758
- List of online National/ International Journals subscribed: 17
- E- Library facilities: NA
- Laboratory and Workshop

8. List of Major Equipment/Facilities in each Laboratory/ Workshop:

- **Department of CIVIL Engineering**

NAME OF EXPERIMENTAL SET UP

- **FLUID MECHANICS & HYDRAULICS LAB**

- Notch apparatus (v-notch& rectangle weir)
- Pitot tube
- Venturi and orifice meter setup
- Hydraulic coefficient c_c , c_v apparatus
- Centrifugal pump test
- Pipe friction apparatus
- Reynolds apparatus
- Cavitations apparatus
- Centrifugal air blower
- Air compressor
- Verification of stokes law apparatus

- **APPLIED MECHANICS LAB**

- Rockwell Hardness test apparatus
- Hellical spring test apparatus
- Impact test apparatus
- Compression testing machine
- Universal Testing machine
- Torsion Testing machine

- **MATERIAL HANDLING LAB**

- Fatigue test apparatus
- Erichsen Cupping Test apparatus
- Ultrasonic pulse velocity machine

- **HIGHWAY & TRANSPORTATION LAB**

- Aggregates- Impact test machine
- Los-Angeles Abrasion value test machine
- Elongation Index test machine
- Flakiness Index test machine
- Flash & Fire point test machine
- Penetration value test machine

- Softening point test machine
- Striping value test machine
- Marshal stability test machine

- **CAD LABORATOR TECHNICAL SOFTWARE**

- Autocad Software [License expired]
- Stadpro Software [License expired]

- **CONCRETE LAB**

- Compacting Factor Test Apparatus
- Flextural strength Testing Apparatus
- Vee-Bee Apparatus
- Compressive strength Testing Machine
- Vicat Apparatus
- Rebound Hammer Apparatus
- Le-Chatelier Apparatus
- Le-Chatelier Flask

- **ENGINEERING GEOLOGY LABORATORY (CE594)**

- Hardness tool box. (Minerals)
- Colour samples tool box. (Minerals)
- Luster samples tool box. (Minerals)
- Cleavage & fracture sample tool box. (Minerals)
- Rock samples (Igneous, sedimentary & metamorphic).
- Various form of crystalline structure sample (Solid & transparent both).
- Various landforms (e.g. Faults & folds)
- Analysis of various rock slides with microscope.

- **SOIL MECHANICS LABORATORY**

- Determination of water content
- Determination of specific gravity by pycnometer
- Liquid limit test
- Plastic limit test
- Field density by core cutter method
- Field density by sand replacement method
- Standard proctor test
- Particle size distribution by sieve analysis
- Particle size distribution by hydrometer method
- Direct shear test
- Vane shear test
- Tri-axial test
- Cbr test
- Unconfined compression test
- One dimensional consolidation test

- **SURVEY LAB**

- Metric Chain with accessories
- Metallic Tape
- Prismatic Compass
- Plane Table with accessories
- Theodolite
- Dumpy Level with stand & staff

- Auto Level with stand and staff
- Total station with accessories

• Department of FOOD TECHNOLOGY

• Food chemistry and Food microbiology lab

- Digital pH meter
- Digital grain moisture meter
- Refractometer
- BOD Incubator
- Shaker
- Microbial colony counter
- Thin layer chromatography set
- Water bath
- Microscope
- Titration unit
- Importance chemicals
- Heater
- Freezer
- Desiccators

• Food processing lab

- Soxhlet apparatus(automatic)
- Kjeldahl Distillation and Digestion apparatus(protein and nitrogen)
- Centrifuse
- Rotary vacuum evaporator complete set
- Viscometer
- Single distillation apparatus
- Laminar airflow
- Light duty liquid homogenizer
- Muffle Furnace
- Water distillation unit
- Hot air oven
- Brix meter
- Others importance lab accessories

• Department of CIVIL & ENVIRONMENTAL ENGG.

- i) Soil Weighing machine
- ii) Electronic Balance
- iii) Soil Compaction detector/Measuring device
- iv) Sieving equipments
- v) Soil Compressibility character determining Tool
- vi) Unconfined compressive strength of soil determining tool
- vii) Shear parameter determining tool
- viii) Hot Air Oven
- ix) Bitumen and Bituminous materials: Flash and Fire Point test Apparatus
- x) Oil and Bitumen: Viscosity measuring device
- xi) Penetration test Apparatus
- xii) Dessicator
- xiii) Slump test Apparatus

- xiv) Rebound hammer
- xv) Chain 30m, 20m
- xvi) Dumpy level
- xvii) Wooden peg
- xviii) Arrow
- xix) Visible spectrophotometer
- xx) Muffle Furnace (Make: Lab Equipments & Chemicals)
- xxi) Rectangular water bath
- xxii) Soxhlet Apparatus
- xxiii) Microwave heater (Make: Electrolux)
- xxiv) Pitot Tube
- xxv) Orifice meter
- xxvi) BOD Incubator – Shaker
- xxvii) Portable Mini Autoclave
- xxviii) Kjehldahl Apparatus
- xxix) Portable pH meter (Make: Mettler Toledo)
- xxx) Bacterial Colony counter (Make: Labtronics)
- xxxii) Microscope (Make: Omax Optic, Model No. RD-4)
- xxxiii) Handy Pocket size pH meter (Make: Hanna Instruments)
- xxxiiii) Auto Digital pH meter (Make: Labtronics, Model: LT-11)
- xxxv) Centrifuge machine(Make: Remi, Model: RM-12C)
- xxxvi) Laminar air Flow chamber with manual door opening system
- xxxvii) Electric Coil heater

• **Department of COMPUTER SCIENCE & ENGINEERING**

Basic Computing lab		
Experiments	Hardware	Software
<ul style="list-style-type: none"> • C programming • C++ programming • Numerical Programming • Computer Architecture • Unix Programming 	53 Computers (Dell, ACER, HCL) 6 D-link switch (24 port) 1 Server	Windows Linux MS Office Turbo C/C++ i VERILOG

Data Base and OS Lab		
Experiments	Hardware	Software
<ul style="list-style-type: none"> • PL/SQL programming • Shell programming • JAVA programming 	30 Computers (Dell, ACER, HCL) 2 D-link switch (24 port)	Windows Linux ORACLE JDK

Software Engineering and Networking Lab		
Experiments	Hardware	Software
<ul style="list-style-type: none"> • Implementations of various phase of SDLC model • VB Lab • Socket programming 	25 Computers (Dell, ACER, HCL) 2 D-link switch (24 port)	Windows Linux Visual Studio

1. BASIC & ANALOG ELECTRONICS LAB

This lab comprises of Basic Electronics and Analog Electronics lab. Each of them has different lab set-up and different experiments.

1. BASIC ELECTRONICS LAB

Experiments:

Training in this laboratory is done through properly planned structured programme with the following sequences:

- Introduction and identification of different active and passive electronic devices / components.
- Familiarization with different signal sources and instruments used in electronic engineering. In the process student can learn the significances of the manufactures specifications etc.
- To learn the use/ handling of different measuring instruments like multimeters, C.R.O etc.
- Find and studies on the various characteristic of different active devices like diodes (PN Junction Diode, Zener Diode, LED) transistors, field effect transistor, Photodiodes and to determine the different parameters of these devices
- To recognize Half Wave & Full Wave rectified sinusoidal signal & find out different parameters.
- Familiarization with op-amp & measurement of it's different parameters.
- Implementation of different logic gates & Boolean functions using different Ics.

Major Equipment in the Lab

- Various power supplies – fixed and variable variety with different current rating. Make – Scientech, Aplab etc. Some of the power supply are in use designed and fabricated technical staff of the department.
- Digital multimeters (scientech)
- Cathode ray oscilloscope (Scientech)
- Function Generator (Scientech)
- Regulated DC power supply (Scientech)
- FET Test Set (Detech, Scientech- Nvis Technologies)
- PN Junction Diode / Zener Diode Test Set (HITECH)
- Op-Amp Power Supply
- Rectifier Test Set (HITECH)
- Op-Amp Test Set (SCIENTECH)
- Transistor Test Set (Scientech- Nvis Technologies)
- Multi power Supply (Scientech)

2. ANALOG ELECTRONICS LAB

Experiments: In this laboratory students are introduce to design, assembly, testing, and trouble-shooting of analog electronic circuits. Experiments encompass a wide range of topics such as amplifiers, filters, power supplies, power control, oscillators, and communication circuits. In this laboratory experiments are done through following planned sequences:

- Learn the various applications of diode like-clipper, clamper, full wave rectifier etc.
- Study voltage regulator using Zener diode and measure ripple and regulation characteristics without and with capacitor filter.
- Find and studies on the various characteristic of B.J.T & F.E.T and to determine their different parameters.
- Study some important aspects of different power amplifiers configurations.
Eg.- class A & class B, class C & Push-Pull amplifiers
- Design a two-stage R-C coupled amplifier & study of its gain & Bandwidth.
- Realization of different applications of operational amplifier - current mirror, level shifter circuit & V-to-I, I-to-V converter,.
- Find and studies the different configuration of multivibrators using NE 555
- Design and construct switched mode power supply, voltage regulator using regulator IC chip
- Construction of simple function generator using IC chip.
- Study of a digital to analog converter and vice versa.

Major Equipment in the Lab

- Function generator- (Scientech)
- Variable Power supply: fixed and variable variety with different current rating. Make – Elnova, Scientech etc. Some of the power supply is in use designed and fabricated by students and Technical staff of the department.
- Digital multimeters (SCIENTECH)
- Oscilloscope Cathode Ray Oscilloscope. (25MHz, 30 MHz, scientech) ii)Digital Storage Oscilloscope. (100MHz, scientech)
- Distortion Meter(Scientech).
- Output Power Meter. (Scientech)
- Trainer Kit. Transistor Push Pull Amplifier. (scientech) , Tuned Amplifier. (Scientech), Switch

Mode

Power Supply. Nvis technologies , Push Pull Amplifier.(Scientech), Analog To Digital Converter. (Scientech) , Class A Amplifier. (Scientech), Class B Amplifier. (Scientech),Digital To Analog Converter. (Scientech) , V.C.O & PLL. (Scientech), Class C Tuned Amplifier. (Scientech), Transistor Characteristics Trainer. (Nvis technologies)

3. DIGITAL AND MICROPROCESSOR LAB

This lab comprises of Microprocessor and Digital Electronics lab. Each of them has different lab set-up and different experiments

• DIGITAL ELECTRONICS LAB

Experiments: In this laboratory students are introduced with digital ICs and their specifications and are skilled with practical digital circuit design. Training in this laboratory is done with accurate planned structured programme with the following sequences:

Introduction and identification of different digital IC chips and their specifications, concept of Vcc and ground, verification of the truth tables of logic gates.

- To learn the use of different ICs and LEDs for designing logic circuit and verifying the results respectively.
- Study of basic gate diagrams and realize the same with universal logic gates .
- Realization of different codes and also the conversion technique like BCD to Excess-3 and vice-versa, BCD to decimal to drive 7-segment display using multiplexer etc Construction of various combinational circuits such as adder, adder circuit using shift Register and full adder,subtractor,simple decoder,multiplexer,parity generator and comparator using logic gate ICs or any specific chip.

Major Equipment in the Lab

- Fixed and variable Various power supplies (scientech)
- Multiple power supply (Scientech)
- Digital multimeters (scientech)
- Function generators: (Scientech)
- Cathode ray oscilloscope (Aplab,scientech)

• MICROPROCESSOR AND MICROCONTROLLER LAB

Experiments:

- Study of prewritten programs on trainer kit using the basic
- instruction set (data transfer, Load/Store, Arithmetic, Logical).
- Familiarization with 8085 simulator on PC
- Programming using kit and simulator for:
- Table look up
- Copying a block of memory
- Shifting a block of memory
- Packing and unpacking of BCD numbers
- Addition of BCD numbers
- Binary to ASCII conversion
- String Matching Multiplication using Booth's Algorithm
- Program using subroutine calls and IN/OUT instructions using

- 8255 PPI on the trainerkit e.g. subroutine for delay, reading switch
- state and glowing LEDs accordingly
- Study of timing diagram of an instruction on oscilloscope

Major Equipment of the lab:

- 8085 Microprocessor trainer kit
- 8086 Microprocessor trainer kit
- 8051 Microcontroller trainer kit
- 8255 Microprocessor trainer kit
- 8279 Microprocessor trainer kit

4. COMMUNICATION LAB

This lab comprises of Analog Communication lab, Digital Communication lab and Advanced Communication lab. Each of them has different lab set-up and different experiments.

5. ANALOG COMMUNICATION LAB

Experiments: This is a laboratory where students are acquainted with Communication Engineering for the first time and are skilled with preliminary of Communication. Training in this laboratory is done through properly planned structured programme with the following sequences:

- Measurement of modulation index of an AM signal.
- Measurement of output power with varying modulation index of an AM signal (for both DSB-SC & SSB).
- Measurement of distortion of the demodulated output with varying modulation index of an AM signal (for both DSB-SC & SSB).
- Measurement of power of different frequency components of a frequency modulated signal & the measurement of the bandwidth.
- Design a PLL using VCO & to measure the lock frequency.
- Design a FM demodulator using PLL.

Major Equipments in the Lab:

- Various power supplies – fixed and variable variety with different current rating. Make – Enova, Aplab etc. Some of the power supplies are in use designed and fabricated by technical staff of The department and project students.
- Digital multimeters : Metravi-19
- Cathode ray oscilloscope : Scientech (20MHz, 25MHz, 30 MHz, 50 MHz)
- DSB, SSB/AM Transmitter Trainer kit: Scientech, ST-2201
- DSB, SSB/AM Receiver Trainer kit: Scientech, ST-2202 (also used as super heterodyne receiver)
- FM Transmitter & Receiver Trainer Kit; SCIENTECH, ST-2203
- TDM Modulation & Demodulation Trainer Kit; SCIENTECH, ST-2102

6. DIGITAL COMMUNICATION LAB

Experiments: Digital systems allow for increased data transmission and more resistance to noise. There are many different ways to modulate binary digital signals depending on the communication system. The goals of this lab is to supplement the theory course (Digital Communication systems) to assist the students in obtaining a better understanding of the operation of digital modulation schemes and to provide experience in analyzing and test of digital communication systems using simulation software as well as lab instruments. Also Laboratory experiments deal with the following experiments:

- To understand how Digital modulation like ASK, FSK, PSK is done & what is the output waveform.
- Studies on Delta modulator & Demodulator using trainer kits
- To understand the digital to Analog and Analog to Digital conversion.
- To generate the PN sequence in lab.
- Studies of PCM transmitter and receiver.
- Study of line coders: UPNRZ, PRZ, BPRZ, PNRZ
- Studies on Adaptive delta modulation using trainer kits
- Studies on PCM/TDM system
- Studies of direct sequence spread spectrum modulation and demodulation

Major Equipment in the Lab

- Various Kit: ASK, FSK, PSK, TDM, Delta Modulation, Adaptive Modulation, PCM, A/D, D/A converter etc. (Scientech) .
- Cathode ray oscilloscope.(Scientech ,20MHz, 25MHz, 30 MHz, 50 MHz)
- Digital Storage Oscilloscope.
- Spectrum Analyzer.

7. ADVANCED COMMUNICATION LAB

Experiments: The Advance lab provides a wide range of experimental setup as follows

- Measurement of numerical aperture of an Optical Fiber.
- Measurement of Propagation loss, bending loss, and Connector loss in an Optical Fiber.
- Studies of LASER Characteristic: A) Optical Power (P_o) of a LASER Diode Vs LASER Diode Forward current (IF). B) Monitor Photo Diode Current (I_m) vs. LASER Optical Power output
- Studies on cellular mobile communication System: Working principle, input /output Signal of different sections, Transmitter and Receiver section. Study of SIM Card and its Detection, SIM reset, SIM Clock, SIM Data, and SIM Supply.
- Studies on GSM: Understanding of GSM Technology Signal like its network, network commands: Modem Commands, Simcard hardware commands, Network registration commands, Call control commands, Phone book commands, Message handling commands

Major Equipment in the Lab

- Optical fiber trainer kit (Scientech)
- Optical fiber trainer kit for PC to PC communication (Scientech)
- LASER trainer kit (Scientech)
- GSM trainer kit (Scientech)

8. SIMULATION LAB

This lab offers Signals and System lab, Solid State Lab, Digital Signal Processing Lab and VLSI lab. Each Laboratory has different equipments and different experiments where all kind of simulation are performed using different software tools.

1. SIGNALS & SYSTEMS LAB

Objectives: The Signals and Systems is concerned with the representation of signals and the study of the changes that occur to them as they pass through systems. The study of Signals and Systems is to allow one to predict, with some certainty, the behaviour of systems when they are subjected to different input signals. The problem solving and analytical skills that the student acquires through the study of the subject can often help him in his later career to tackle and solve problems in a systematic manner.

Looking ahead, the scope of potential applications of the methods of Signals and Systems will continue to grow as engineers are faced with new challenges involving ever more complex systems and processes.

Experiments:

- Students can visualize the Z-domain analysis of: a) Sinusoidal signals b) Step functions.
- Verify the output of Fourier and Laplace transformations of a signal.
- To study convolution theorem in time and frequency domain.
- To Study Signal Synthesis via sum of harmonics.
- To study LPF & HPF, band passes and rejects filters using RC circuits.
- To demonstrate how analog signals are sampled and how different sampling rates affect the outputs.
- To study sampling theorem for low pass signals and band pass signals.
- To determine the components of: a) Square wave b) Clipped sine wave.

Major equipments in the lab:

- Cathode Ray Oscilloscope (Scientech ,20MHz, 25MHz, 30 MHz, 50 MHz)
- Function Generator: i) Scientech, ST-4060, 1MHz 1.
- Digital Multi-meter (Metravi-19)
- MATLAB 2008b (Mathworks)

2. DIGITAL SIGNAL PROCESSING LAB

Objective: Digital Signal Processing (DSP) can be described as the processing of signals using digital techniques or digital computers. A signal is a piece of information in binary or digital form. Digital Signal processing techniques improve signal quality or extract important information by removing unwanted part of the signal. Digital Signal Processing accounts for a substantial proportion of the world market for electronic devices. And therefore, the leading electronics manufacturers have invested heavily in DSP technology

Experiments:

- Realization of different kinds of discrete signals.
- Effect of different arithmetic operations on the discrete signals.
- Study the utility of convolution of two sequences using different methods.
- Familiar with frequency domain analysis of the discrete signals using z-transform and Fourier transform.
- Simulate DFT & IDFT & study their properties.
- Study the difference between linear and circular convolution and its application.
- Realization of the Butterworth Filter with different set of design parameters.

Major equipments in the Lab:

- Desktop PC
- DSP Starter Kit TMS320C5416 (Texas Instruments)
- MATLAB 7.0.1 (Mathworks)
- MATLAB 2008b (Mathworks)

LIST OF EXPERIMENTAL SETUP FOR 1ST YEAR

YEAR	LABS	LIST OF SET UPS FOR EXPERIMENTS
1 ST	Basic Electrical Laboratory	Set up for Characteristics of Fluorescent Lamp
		Set up for Characteristics of Tungsten & Carbon filament lamp
		Trainer kit for Verification of Thevenin's Theorem
		Trainer kit for Verification of Superposition Theorem
		Trainer kit for Verification of Norton's Theorem
		Trainer kit for Verification of Maximum Power Transfer Theorem
		Set up for Study of RLC Series Circuit
		Set up for Calibration of ammeter & voltmeter
		Set up for Open Circuit & Short Circuit test of a single phase transformer
		Set up for No load characteristics of DC shunt generator
		Set up for Starting and reversing of speed of dc shunt motor and Speed control of dc shunt motor
		Set up for Measurement of power in a three phase circuit by two wattmeter method

• **Department of MECHANICAL ENGINEERING**

(A) WORKSHOP PRACTICE LAB:

Sl No	Machines	No of Item
1	Lathe	8
2	Milling	1
3	Shaping	1
4	Power Saw	1
5	Radial Drilling	1
6	Bench Drilling	2
7	Bench Grinding	2
8	Bending Machine	1
9	Surface Grinder	1
10	Tool Grinder	1
11	Shearing Machine	1
12	Bench Vice (Fitting & carpentry)	16
13	MIG welding set	1
14	ARC welding set	2
15	Gas welding set	1
16	Spot welding set	1

(B) FLUID MECHANICS LAB:

Sl No	Machines	No of Item
1	Discharge/Flow measurement through Venturimeter & Orifice meter	1
2	Pitot Tube	1
3	Reynolds No Determination	1
4	Centrifugal Pump Test Rig	1
5	Reciprocating Compressor Test Rig	1
6	V & Rectangular Notch Experimental set up	1
7	Air Blower Test Rig	1
8	Measure various losses in fluid flow thro' Pipes	1

(C) DYNAMICS OF MACHINES LAB

Sl No	Machines	No of Item
1	Cam follower analysis	1
2	Gyroscope	1
3	Universal Governor	1
4	Universal Vibration apparatus	1
5	Dynamic Balancing of masses	1

(D) METROLOGY & MEASUREMENT LAB:

Sl No	Machines	No of Item
1	Bevel Protractor	1
2	Screw Thread Micrometer	1
3	Gear tooth vernier micrometer	1
4	Sine Bar	1
5	Profile projector	1
6	Slip Gauges	1
7	Vernier Height Gauge	1
8	Surface cleaning machine	1
9	Dial Indicator	1

(E) ADVANCED MANUFACTURING LAB:

SI No	Machines	No of Item
1	Ultrasonic Cleaner	1
2	Chemical Polishing & Etching	1
3	Robot	1

(F) MANUFACTURING LAB:

SI No	Machines	No of Item
1	Sand mould mixing machine	1
2	GFN testing machine of sand	1
3	Sand Permeability testing machine	1
4	Sand Rammer	1
5	Moisture container testing apparatus	1
6	Green sand testing machine	1
7	Clay contain testing apparatus	1
8	Tilting furnace	1
9	Open hearth furnace	3
10	Swage block	3
11	Mould hardness tester	1

(G) MATERIAL TESTING & APPLIED MECHANICS LAB

SI No	Machines	No of Item
1	Impact testing machine (Izod & charpy)	1
2	Spring testing machine	1
3	Cupping testing machine	1
4	Universal testing machine	1
5	Torsion testing machine	1
6	Hardness testing machine	1
7	Ultrasonic flaw detector	1
8	Fatigue testing machine	1
9	Microscope (for Metallographic testing)	1

(H) HEAT TRANSFER LAB

SI No	Machines	No of Item
1	Thermal conductivity of metal bar apparatus	1
2	Thermal conductivity of liquid apparatus	1
3	Thermal conductivity of insulating powder apparatus	1
4	Forced convection apparatus	1
5	Natural convection apparatus	1
6	Pin-Fin apparatus	1
7	Cooling Tower apparatus	1
8	Emissivity test apparatus	1
9	Heat Exchanger apparatus	1
10	Throttling calorimeter apparatus	1

(I) THERMAL POWER ENGINEERING & IC ENGINE LAB

SI No	Machines	No of Item
1	Fire tube Boiler (Model)	2
2	Water tube Boiler (Model)	2
3	2-stroke Petrol engine (Model)	1
4	4-stroke Diesel engine (Model)	2
5	Diesel engine with rope break	1
6	Diesel engine with electric break	1
7	4-stroke petrol engine with electric break	1
8	Flash point & Fire point apparatus (Open type)	1
9	Flash point & Fire point apparatus (Closed type)	1

Lab Details of AS&H Department:

Chemistry Lab Equipments: Conductometer, pH meter, Glass apparatus, Ostwald viscometer.

Physics lab Equipments: Spectrometer, Prism, Mercury Vapour Lamp, Travelling Microscope, Metallic Beam, Measuring Wts, MI Apparatus, Stop Watch, Slide Callipers, Screw Gauge, Laser Detector, Laser Set Up, Planck's Constant Set Up, Semiconductor, Power supply, Coil, Thermometer, CRT, Power Supply, Bar Magnet, Compass Box, Stand, Solar Cell Set Up, Gauss Meter, Digital millivoltmeter, EM, Semiconductor, Stefan's Constant Apparatus with EZ-81 diode Valve.

English Language Laboratory.

- Computing Facilities:
- Internet Bandwidth: 48 mbps
- Number and configuration of System: Intel Core i3 2130/2120, 2GB RAM, 160/250/320/500/1000 GB HDD, LED Monitor, Key Board, Mouse. All computers are connected through LAN.
- Total number of system connected by LAN: 250
- Total number of system connected by WAN: 110 computers are using WAN through NAT
- Major software packages available: GCC, G++, JDK COMPILERS, VISUAL BASIC, NETBEANS, ECLIPSE, IDE, LINUX OS (MINT 17.3, UBUNTU MAT etc.), MYSQL
- Special purpose facilities available: JIO Wi-fi for students, Firewall protected Internet, Redundant Internet Connection, each having 20mbps.
- Innovation Cell: An Innovation cell in the name of startup centre has been formed to inculcate culture of innovation driven entrepreneurs and to nurture the young people towards the socio-economic development of the country.
- Social Media Cell: To be formed shortly.
- Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM
- Institutions and University Departments: Not applicable.

List of facilities available

- Games and Sports Facilities :Different indoor and outdoor games and sports facilities are available in the campus. For example, table tennis, carom board, Cricket, Football, Volley ball, discus throw, javelline, shot put etc.
- Extra-Curricular Activities: Cultural activities, Projects, Japanese Language skill, NSS Activities
- Soft Skill Development Facilities: Soft Skills Development Lab has been specially formed in the Institute to train the students from the very beginning to make them industry-ready and self-groomed personality. Special emphasis is given on their GD Skills, Presentation Skills, Interview Techniques and so on.
- Curricula and syllabus for each of the programmes as approved by the University: The Institute Strictly follows the curricula and syllabus for each of the programmes as per MAKAUT, WB.
- Academic Calendar of the University: As prescribed by MAKAUT, WB.
- Academic Time Table with the name of the Faculty members handling the Course:



WEST BENGAL UNIVERSITY OF TECHNOLOGY

Office of the Inspector of Colleges

BF-142, Salt Lake City, Kolkata – 700 064

Tel. No. (033)2321-7588, (033) 2334-1014/1021/1025/1028/1031, Fax : (033) 2321-8776

No. 343 / B.TECH / Affiliation / 2014-15

Date : 27.06.2014

The affiliation is hereby accorded for the academic year 2014-15 under Section 5(4) of the West Bengal University of Technology Act, 2000 (West Bengal Act XV of 2000) to

HEMNALINI MEMORIAL COLLEGE OF ENGINEERING

Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246

[College Code : 343]

for conducting the following course(s) with the intake indicated below :

PROGRAM	LEVEL OF COURSE	NAME OF COURSE	INTAKE FOR 2014-15
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL & ENVIRONMENTAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	FOOD TECHNOLOGY	60

The above affiliation is issued subject to fulfillment of the following terms and conditions :

1. That this Affiliation is being granted based on the (i) AICTE approval letter F.No. Eastern/2014/1-2197716871 dated 10.06.2014 received by the college in its webportal & affirmation of the same vide affidavit No. 41332 dated 26.06.2014 before the Judicial Magistrate/Executive Magistrate, Alipore Court read with our Notification No. 993/IC-161/2014 dated 23.06.2014, (ii) Legal report dated 19.06.2014, (iii) Inspection report dated 13.06.2014 and (iv) Approval dated 27.06.2014 of the Hon'ble Vice Chancellor, WBUT in the File No. IC-157/2014.
2. That the sponsoring Society / Trust/Company established under Section 25 of Companies Act 1956 shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the WBUT and AICTE from time to time and for meeting recurring expenditure.
3. That the admission and conduct of courses shall be made in accordance with the regulations notified by the State Govt., WBUT and AICTE from time to time.
4. That the curriculum of the course, the procedure for evaluation/assessment of students and infrastructure in the classes, laboratories & library shall be in accordance with the norms prescribed by the WBUT and AICTE.
5. That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) of after intake capacity of seats without the prior approval of the WBUT and AICTE.
6. That no excess admission shall be made by the Institution over and above the approval intake under any circumstances. In case any excess admission is reported to / founded by the WBUT, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.



7. That the Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of WBUT and AICTE. In case any violation is reported to / founded by the WBUT, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
8. That the Institution shall not conduct any non-technical course(s) in the same premises / campus under any circumstances. In case any violation is found by the WBUT, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
9. That the Institution shall operate only from the approved location, and that the Institution shall not open any off campus study centres / extension centres directly or in collaboration with any other Institution / University / Organisation for the purpose of imparting technical education without obtaining prior approval from the WBUT and AICTE.
10. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the WBUT.
11. That the Institution shall furnish requisite returns & reports as desired by WBUT in order to ensure proper maintenance of administrative & academic standards.
12. That the Director / Principal and the teaching staff, Technical Assistants and other staff shall be selected according to procedures, qualifications and experience prescribed by the WBUT / AICTE / UGC from time to time and pay scales and other allowances & benefits shall be as per the norms prescribed by the Govt. of W.B. / UGC / AICTE from time to time.
13. That if the Institution fails to disclose the information or suppress and/or misrepresent the information, appropriate action could be initiated including withdrawal of WBUT affiliation.
14. WBUT may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards prescribed by WBUT/AICTE. Deficiencies / Shortcomings if any (in respect of built-up area requirement, instructional area requirement, laboratories requirement, computer requirement, library requirement, full-time faculty members requirement and other desirable requirements etc. in accordance with the AICTE / WBUT norms) as were/will be pointed out shall have to be removed within a reasonable time to be prescribed by WBUT failing which penal action including withdrawal of affiliation shall be initiated against the Institution.
15. That the WBUT may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc. Adverse findings will lead appropriate penal action including withdrawal of affiliation.
16. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. © 656/1998 and norms as stipulated by the UGC & AICTE.
17. The Institution shall remain bound by the norms, rules and regulations formulated by the University in respect of the conditions of affiliation, course & fee structure, syllabi content and academic regulations governing the conduct of the course(s) and shall pay fees / charges to be fixed by the University in respect of inspection, affiliation, registration of students, examination fees, etc. including any subsequent changes therein introduced by the University from time to time.

In the event of closure of the institution, the Organizing Society / Trust will not close Institution till the last batch of students admitted in the academic programmes complete the total duration of their respective academic programmes (i.e. 2 years, 3 years, 4 years etc. as the case may be).





18 The University will have no financial liability whatsoever for conducting the course(s).

Any infringement / contravention / non-compliance of the conditions mentioned above lead to withdrawal of affiliation. All liabilities arising out of such withdrawal would solely rest upon to that of organizing Trust / Society. After completion of the academic year (2014 – 2015), the Institute will seek renewal of affiliation course-wise for the year (2015 – 2016).

Checked & Verified

S. Saha

(Sujit Kumar Saha)


Inspector of Colleges

Copy forwarded for information and necessary action to :

1. The Chairman, Bhattacharya Engineering Education and Research Trust (Sponsoring Trust of Hemnalini Memorial College of Engineering), 272, Barajonepur, P.S. Bizpur, Kanchrapara, Nadia, West Bengal, 743145.
2. The Principal / Director,
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246.
3. The Chairman, West Bengal Joint Entrance Examinations Board, AQ 13/1, Sector V, Salt Lake, Kol – 91.
4. The Principal Secretary, HED, Govt. of W.B., Bikash Bhavan, Salt Lake, Kolkata – 700 091.
5. The Regional Officer, Eastern Regional Office, AICTE, Block LB, Sector III, Salt Lake, Kolkata - 98.
6. The Vice Chancellor's Unit.
7. The Registrar's Unit.
8. The Controller of Examinations' Unit.
9. The Finance Officer's Unit.
10. The Inspector of Colleges' Unit.
11. AFFILIATION GUARD FILE.
12. College File.

ATTESTED

Registrar
West Bengal University of Technology
BF-142, Sector-I, Salt Lake
Kolkata - 700 064

Inspector of Colleges




27/1/15
Compared



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

(Formerly West Bengal University of Technology)

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No. 343 / B.TECH / Affiliation / 2015-16

Date : 01.07.2015

The **RENEWAL** affiliation is hereby accorded for the academic year **2015-16** under Section 5(4) of the West Bengal University of Technology Act, 2000 (West Bengal Act XV of 2000) to

HEMNALINI MEMORIAL COLLEGE OF ENGINEERING

Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246

[College Code : 343]

for conducting the following course(s) with the intake indicated below :

PROGRAM	LEVEL OF COURSE	NAME OF COURSE	INTAKE FOR 2015-16
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL & ENVIRONMENTAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	FOOD TECHNOLOGY	60

The above affiliation is issued subject to fulfillment of the following terms and conditions :

1. That this Affiliation/Renewal Affiliation is being granted based on the (i) The hard copy of the computer generated report containing 115 Pages of the AICTE approved College list for the Academic Year 2015-2016 duly authenticated by the Hon'ble Vice Chancellor dated 11.06.2015 which had been received by him through email, (ii) Inspection report dated 21.01.2015 and (iii) Decision dated 10.06.2015 of the Hon'ble Vice Chancellor, MAKAUT, WB in the File No. IC-171/2015.
2. That the sponsoring Society / Trust/Company established under Section 25 of Companies Act 1956 shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the MAKAUT, WB and AICTE from time to time and for meeting recurring expenditure.
3. That the admission and conduct of courses shall be made in accordance with the regulations notified by the State Govt., MAKAUT, WB and AICTE from time to time.
4. That the curriculum of the course, the procedure for evaluation/assessment of students and infrastructure in the classes, laboratories & library shall be in accordance with the norms prescribed by the MAKAUT, WB and AICTE.
5. That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) of after intake capacity of seats without the prior approval of the MAKAUT, WB and AICTE.
6. That no excess admission shall be made by the Institution over and above the approval intake under any circumstances. In case any excess admission is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.



7. That the Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of MAKAUT, WB and AICTE. In case any violation is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
8. That the Institution shall not conduct any non-technical course(s) in the same premises / campus under any circumstances. In case any violation is found by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
9. That the Institution shall operate only from the approved location, and that the Institution shall not open any off campus study centres / extension centres directly or in collaboration with any other Institution / University / Organisation for the purpose of imparting technical education without obtaining prior approval from the MAKAUT, WB and AICTE.
10. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the MAKAUT, WB.
11. That the Institution shall furnish requisite returns & reports as desired by MAKAUT, WB in order to ensure proper maintenance of administrative & academic standards
12. That the Director / Principal and the teaching staff, Technical Assistants and other staff shall be selected according to procedures, qualifications and experience prescribed by the MAKAUT, WB / AICTE / UGC from time to time and pay scales and other allowances & benefits shall be as per the norms prescribed by the Govt. of W.B. / UGC / AICTE from time to time.
13. That if the Institution fails to disclose the information or suppress and/or misrepresent the information, appropriate action could be initiated including withdrawal of MAKAUT, WB affiliation.
14. MAKAUT, WB may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards prescribed by MAKAUT, WB/AICTE. Deficiencies / Shortcomings if any (in respect of built-up area requirement, instructional area requirement, laboratories requirement, computer requirement, library requirement, full-time faculty members requirement and other desirable requirements etc. in accordance with the AICTE / MAKAUT, WB norms) as were/will be pointed out shall have to be removed within a reasonable time to be prescribed by MAKAUT, WB failing which penal action including withdrawal of affiliation shall be initiated against the Institution.
15. That the MAKAUT, WB may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc. Adverse findings will lead appropriate penal action including withdrawal of affiliation.
16. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. © 656/1998 and norms as stipulated by the UGC & AICTE.
17. The Institution shall remain bound by the norms, rules and regulations formulated by the University in respect of the conditions of affiliation, course & fee structure, syllabi content and academic regulations governing the conduct of the course(s) and shall pay fees / charges to be fixed by the University in respect of inspection, affiliation, registration of students, examination fees, etc. including any subsequent changes therein introduced by the University from time to time.

In the event of closure of the institution, the Organizing Society / Trust will not close Institution till the last batch of students admitted in the academic programmes complete the total duration of their respective academic programmes (i.e. 2 years, 3 years, 4 years etc. as the case may be).



18. The University will have no financial liability whatsoever for conducting the course(s).

Any infringement / contravention / non-compliance of the conditions mentioned above lead to withdrawal of affiliation. All liabilities arising out of such withdrawal would solely rest upon to that of organizing Trust / Society. After completion of the academic year (2015 – 2016), the Institute will seek renewal of affiliation course-wise for the year (2016 – 2017).

Checked & Verified

S. Saha


(Sujit Kumar Saha)


Inspector of Colleges

Copy forwarded for information and necessary action to :

1. The Principal / Director,
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal. 741246.
2. The Chairman, West Bengal Joint Entrance Examinations Board, AQ 13/1, Sector V, Salt Lake, Kol - 91.
3. The Principal Secretary, HED, Govt. of W.B., Bikash Bhavan, Salt Lake, Kolkata - 700 091.
4. The Regional Officer, Eastern Regional Office, AICTE, Block LB, Sector III, Salt Lake, Kolkata - 98.
5. The Vice Chancellor's Unit.
6. The Registrar's Unit.
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12. College File.




Inspector of Colleges



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly West Bengal University of Technology)

Office of the Inspector of Colleges

BF-142, Salt Lake City, Kolkata – 700 064

Tel No : (033)2321-7558, (033)2334-1014/1021/1025/1028/1031, Fax : (033)2321-8776

No. 343 / B.TECH / Affiliation / 2017-18

Date : 15.05.2017

The **RENEWAL** affiliation is hereby accorded for the academic year **2017-18** under Section 5(4) of the West Bengal University of Technology Act, 2000 (West Bengal Act XV of 2000) to

HEMNALINI MEMORIAL COLLEGE OF ENGINEERING

Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246

[College Code : 343]

for conducting the following course(s) with the intake indicated below :

PROGRAM	LEVEL OF COURSE	NAME OF COURSE	INTAKE FOR 2017-18
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL & ENVIRONMENTAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	FOOD TECHNOLOGY	60

The above affiliation is issued subject to fulfillment of the following terms and conditions :

1. That this Affiliation/Renewal Affiliation is being granted based on the (i) hard copy of the computer generated report containing 52 Pages of the AICTE approved College list for the Academic Year 2017-2018 duly authenticated by the Hon'ble Vice Chancellor dated 15.05.2017 which had been received by him through email dated 12.05.2017, (ii) inspection report dated 17.03.2017 and (iii) decision dated 15.05.2017 of the Hon'ble Vice Chancellor, MAKAUT, WB in the File No. IC-195/2017.
2. That the sponsoring Society / Trust/Company established under Section 25 of Companies Act 1956 shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the MAKAUT, WB and AICTE from time to time and for meeting recurring expenditure.
3. That the admission and conduct of courses shall be made in accordance with the regulations notified by the State Govt., MAKAUT, WB and AICTE from time to time.
4. That the curriculum of the course, the procedure for evaluation/assessment of students and infrastructure in the classes, laboratories & library shall be in accordance with the norms prescribed by the MAKAUT, WB and AICTE.
5. That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) of after intake capacity of seats without the prior approval of the MAKAUT, WB and AICTE.
6. That no excess admission shall be made by the Institution over and above the approval intake under any circumstances. In case any excess admission is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.



7. That the Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of MAKAUT, WB and AICTE. In case any violation is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
8. That the Institution shall not conduct any non-technical course(s) in the same premises / campus under any circumstances. In case any violation is found by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
9. That the Institution shall operate only from the approved location, and that the Institution shall not open any off campus study centres / extension centres directly or in collaboration with any other Institution / University / Organisation for the purpose of imparting technical education without obtaining prior approval from the MAKAUT, WB and AICTE.
10. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the MAKAUT, WB.
11. That the Institution shall furnish requisite returns & reports as desired by MAKAUT, WB in order to ensure proper maintenance of administrative & academic standards
12. That the Director / Principal and the teaching staff, Technical Assistants and other staff shall be selected according to procedures, qualifications and experience prescribed by the MAKAUT, WB / AICTE / UGC from time to time and pay scales and other allowances & benefits shall be as per the norms prescribed by the Govt. of W.B. / UGC / AICTE from time to time.
13. That if the Institution fails to disclose the information or suppress and/or misrepresent the information, appropriate action could be initiated including withdrawal of MAKAUT, WB affiliation.
14. MAKAUT, WB may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards prescribed by MAKAUT, WB/AICTE. Deficiencies / Shortcomings if any (in respect of built-up area requirement, instructional area requirement, laboratories requirement, computer requirement, library requirement, full-time faculty members requirement and other desirable requirements etc. in accordance with the AICTE / MAKAUT, WB norms) as were/will be pointed out shall have to be removed within a reasonable time to be prescribed by MAKAUT, WB failing which penal action including withdrawal of affiliation shall be initiated against the Institution.
15. That the MAKAUT, WB may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc. Adverse findings will lead appropriate penal action including withdrawal of affiliation.
16. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. © 656/1998 and norms as stipulated by the UGC & AICTE.
17. The Institution shall remain bound by the norms, rules and regulations formulated by the University in respect of the conditions of affiliation, course & fee structure, syllabi content and academic regulations governing the conduct of the course(s) and shall pay fees / charges to be fixed by the University in respect of inspection, affiliation, registration of students, examination fees, etc. including any subsequent changes therein introduced by the University from time to time.

In the event of closure of the institution, the Organizing Society / Trust will not close Institution till the last batch of students admitted in the academic programmes complete the total duration of their respective academic programmes (i.e. 2 years, 3 years, 4 years etc. as the case may be).



18. The University will have no financial liability whatsoever for conducting the course(s).

Any infringement / contravention / non-compliance of the conditions mentioned above lead to withdrawal of affiliation. All liabilities arising out of such withdrawal would solely rest upon to that of organizing Trust / Society. After completion of the academic year (2017 – 2018), the Institute will seek renewal of affiliation course-wise for the year (2018 – 2019).

Checked & Verified

s. Saha

(Sujit Kumar Saha)

Saha
Inspector of Colleges

Copy forwarded for information and necessary action to :

1. The Principal / Director,
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246.
2. The Chairman, West Bengal Joint Entrance Examinations Board, AQ 13/1, Sector V, Salt Lake, Kol - 91.
3. The Principal Secretary, HED, Govt. of W.B., Bikash Bhavan, Salt Lake, Kolkata - 700 091.
4. The Regional Officer, Eastern Regional Office, AICTE, Block LB, Sector III, Salt Lake, Kolkata - 98.
5. The Vice Chancellor's Unit.
6. The Registrar's Unit.
7. The Controller of Examinations' Unit.
8. The Finance Officer's Unit.
9. The Inspector of Colleges' Unit.
10. GENERAL Guard File.
11. AFFILIATION GUARD FILE.
12. College File.



Inspector of Colleges

1
2



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly West Bengal University of Technology)

Office of the Inspector of Colleges
BF-142, Salt Lake City, Kolkata - 700 064
Tel No. (033)2321-7588, (033) 2334-1014/1021/1025/1028/1031, Fax : (033) 2321-8776

Date : 15.05.2018

No. 343 / B.TECH / Affiliation / 2018-19

The **RENEWAL** affiliation is hereby accorded for the academic year **2018-19** under Section 5(4) of the West Bengal University of Technology Act, 2000 (West Bengal Act XV of 2000) to

HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246,
Kalyani, Nadia, West Bengal, 741246

[College Code : 343]

for conducting the following course(s) with the intake indicated below :

PROGRAM	LEVEL OF COURSE	NAME OF COURSE	INTAKE FOR 2018-19
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL & ENVIRONMENTAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	60
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	FOOD TECHNOLOGY	60

The above affiliation is issued subject to fulfillment of the following terms and conditions :

1. That this Affiliation/Renewal affiliation is being granted based on the (i) hard copy of the computer generated report containing 198 Pages of the AICTE approved College list for the Academic Year 2018-2019 duly authenticated by the Hon'ble Vice Chancellor dated 10.05.2018 which had been received by him through email dated 07.05.2018, (ii) inspection report dated 09.02.2018 and (iii) decision dated 12.05.2018 of the Hon'ble Vice Chancellor, MAKAUT, WB in the File No. IC-219/2018.
2. That the sponsoring Society / Trust/Company established under Section 25 of Companies Act 2013 shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the MAKAUT, WB and AICTE from time to time and for meeting recurring expenditure.
3. That the admission and conduct of courses shall be made in accordance with the regulations notified by the State Govt., MAKAUT, WB and AICTE from time to time.
4. That the curriculum of the course, the procedure for evaluation/assessment of students and infrastructure in the classes, laboratories & library shall be in accordance with the norms prescribed by the MAKAUT, WB and AICTE.
5. That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) of after intake capacity of seats without the prior approval of the MAKAUT, WB and AICTE.
6. That no excess admission shall be made by the Institution over and above the approval intake under any circumstances. In case any excess admission is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.



7. That the Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of MAKAUT, WB and AICTE. In case any violation is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
8. That the Institution shall not conduct any non-technical course(s) in the same premises / campus under any circumstances. In case any violation is found by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
9. That the Institution shall operate only from the approved location, and that the Institution shall not open any off campus study centres / extension centres directly or in collaboration with any other Institution / University / Organisation for the purpose of imparting technical education without obtaining prior approval from the MAKAUT, WB and AICTE.
10. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the MAKAUT, WB.
11. That the Institution shall furnish requisite returns & reports as desired by MAKAUT, WB in order to ensure proper maintenance of administrative & academic standards
12. That the Director / Principal and the teaching staff, Technical Assistants and other staff shall be selected according to procedures, qualifications and experience prescribed by the MAKAUT, WB / AICTE / UGC from time to time and pay scales and other allowances & benefits shall be as per the norms prescribed by the Govt. of W.B. / UGC / AICTE from time to time.
13. That if the Institution fails to disclose the information or suppress and/or misrepresent the information, appropriate action could be initiated including withdrawal of MAKAUT, WB affiliation.
14. MAKAUT, WB may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards prescribed by MAKAUT, WB/AICTE. Deficiencies / Shortcomings if any (in respect of built-up area requirement, instructional area requirement, laboratories requirement, computer requirement, library requirement, full-time faculty members requirement and other desirable requirements etc. in accordance with the AICTE / MAKAUT, WB norms) as were/will be pointed out shall have to be removed within a reasonable time to be prescribed by MAKAUT, WB failing which penal action including withdrawal of affiliation shall be initiated against the Institution.
15. That the MAKAUT, WB may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc. Adverse findings will lead appropriate penal action including withdrawal of affiliation.
16. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. © 656/1998 and norms as stipulated by the UGC & AICTE.
17. The Institution shall remain bound by the norms, rules and regulations formulated by the University in respect of the conditions of affiliation, course & fee structure, syllabi content and academic regulations governing the conduct of the course(s) and shall pay fees / charges to be fixed by the University in respect of inspection, affiliation, registration of students, examination fees, etc. including any subsequent changes therein introduced by the University from time to time.

In the event of closure of the institution, the Organizing Society / Trust will not close Institution till the last batch of students admitted in the academic programmes complete the total duration of their respective academic programmes (i.e. 2 years, 3 years, 4 years etc. as the case may be).




18. The University will have no financial liability whatsoever for conducting the course(s).

Any infringement / contravention / non-compliance of the conditions mentioned above lead to withdrawal of affiliation. All liabilities arising out of such withdrawal would solely rest upon to that of organizing Trust / Society. After completion of the academic year (2018 - 2019), the Institute will seek renewal of affiliation course-wise for the year (2019 - 2020).

Checked & Verified

S. Saha


(Sujit Kumar Saha)


Inspector of Colleges

Copy forwarded for information and necessary action to :

1. The Principal / Director,
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246.
2. The Chairman, West Bengal Joint Entrance Examinations Board, AQ 13/1, Sector V, Salt Lake, Kol - 91.
3. The Principal Secretary, HED, Govt. of W.B., Bikash Bhavan, Salt Lake, Kolkata - 700 091.
4. The Regional Officer, Eastern Regional Office, AICTE, Block LB, Sector III, Salt Lake, Kolkata - 98.
5. The Vice Chancellor's Unit.
6. The Registrar's Unit.
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Inspector of Colleges



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

(Formerly West Bengal University of Technology)

Office of the Inspector of Colleges

Main Campus: NH 12, Haringhata, Post Office – Simhat, Police Station – Haringhata, Pin – 741249

City Campus: BF-142, Salt Lake City, Kolkata – 700 064

Tel No : (033)2321-7588, (033)2334-1014/1021/1025/1028/1031; Fax : (033) 2321-8776

No. 343 / B.TECH / Affiliation / 2019-20

Date : 28.05.2019

The **RENEWAL** affiliation is hereby accorded for the academic year **2019-20** under Section 5(4) of the West Bengal University of Technology Act, 2000 (West Bengal Act XV of 2000) to

HEMNALINI MEMORIAL COLLEGE OF ENGINEERING

Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246,
Kalyani, Nadia, West Bengal, 741246

[College Code : 343]

for conducting the following course(s) with the intake indicated below :

PROGRAM	LEVEL OF COURSE	NAME OF COURSE	INTAKE FOR 2019-20
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL & ENVIRONMENTAL ENGINEERING	30
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	30
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	30
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	30
ENGINEERING & TECHNOLOGY	UNDER GRADUATE	FOOD TECHNOLOGY	30

The above affiliation is issued subject to fulfillment of the following terms and conditions :

1. That this Affiliation is being granted based on the (i) hard copy of the computer generated report containing 99 Pages of the AICTE approved College list for the Academic Year 2019-2020 duly authenticated by the Hon'ble Vice Chancellor dated 15.05.2019 which had been received by him through email dated 13.05.2019, (ii) inspection report dated 19.03.2019 and (iii) decision dated 28.05.2019 of the Competent Authority in File No. IC-249/2019.
2. That the sponsoring Society / Trust/Company established under Section 8 of Companies Act 2013 shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the MAKAUT, WB and AICTE from time to time and for meeting recurring expenditure.
3. That the admission and conduct of courses shall be made in accordance with the regulations notified by the State Govt., MAKAUT, WB and AICTE from time to time.
4. That the curriculum of the course, the procedure for evaluation/assessment of students and infrastructure in the classes, laboratories & library shall be in accordance with the norms prescribed by the MAKAUT, WB and AICTE.
5. That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course(s) of after intake capacity of seats without the prior approval of the MAKAUT, WB and AICTE.
6. That no excess admission shall be made by the Institution over and above the approval intake under any circumstances. In case any excess admission is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.



7. That the Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of MAKAUT, WB and AICTE. In case any violation is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
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10. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the MAKAUT, WB.
11. That the Institution shall furnish requisite returns & reports as desired by MAKAUT, WB in order to ensure proper maintenance of administrative & academic standards
12. That the Director / Principal and the teaching staff, Technical Assistants and other staff shall be selected according to procedures, qualifications and experience prescribed by the MAKAUT, WB / AICTE / UGC from time to time and pay scales and other allowances & benefits shall be as per the norms prescribed by the Govt. of W.B. / UGC / AICTE from time to time.
13. That if the Institution fails to disclose the information or suppress and/or misrepresent the information, appropriate action could be initiated including withdrawal of MAKAUT, WB affiliation.
14. MAKAUT, WB may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards prescribed by MAKAUT, WB/AICTE. Deficiencies / Shortcomings if any (in respect of built-up area requirement, instructional area requirement, laboratories requirement, computer requirement, library requirement, full-time faculty members requirement and other desirable requirements etc. in accordance with the AICTE / MAKAUT, WB norms) as were/will be pointed out shall have to be removed within a reasonable time to be prescribed by MAKAUT, WB failing which penal action including withdrawal of affiliation shall be initiated against the Institution.
15. That the MAKAUT, WB may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc. Adverse findings will lead appropriate penal action including withdrawal of affiliation.
16. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. © 656/1998 and norms as stipulated by the UGC & AICTE.
17. The Institution shall remain bound by the norms, rules and regulations formulated by the University in respect of the conditions of affiliation, course & fee structure, syllabi content and academic regulations governing the conduct of the course(s) and shall pay fees / charges to be fixed by the University in respect of inspection, affiliation, registration of students, examination fees, etc. including any subsequent changes therein introduced by the University from time to time.

In the event of closure of the institution, the Organizing Society / Trust will not close Institution till the last batch of students admitted in the academic programmes complete the total duration of their respective academic programmes (i.e. 2 years, 3 years, 4 years etc. as the case may be).




18. The University will have no financial liability whatsoever for conducting the course(s).

Any infringement / contravention / non-compliance of the conditions mentioned above lead to withdrawal of affiliation. All liabilities arising out of such withdrawal would solely rest upon to that of organizing Trust / Society. After completion of the academic year (2019 – 2020), the Institute will seek renewal of affiliation course-wise for the year (2020 – 2021).

Checked & Verified


s. saha

(Sujit Kumar Saha)


Inspector of Colleges

Copy forwarded for information and necessary action to :

1. The Principal / Director,
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
Mouza-Balindi, J.L. No. 7, P.S. Haringhata, Dist.-Nadia, Pin-741246, Kalyani, Nadia, West Bengal, 741246.
2. The Chairman, West Bengal Joint Entrance Examinations Board, AQ 13/1, Sector V, Salt Lake, Kol - 91.
3. The Principal Secretary, HED, Govt. of W.B., Bikash Bhavan, Salt Lake, Kolkata - 700 091.
4. The Regional Officer, Eastern Regional Office, AICTE, Block LB, Sector III, Salt Lake, Kolkata - 98.
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8. The Finance Officer's Unit.
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10. GENERAL Guard File.
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12. College File.


Inspector of Colleges

19. Best practices (if any):

- Extensive student project scheme from 2nd year onwards.
- Free GATE coaching
- Spoken English training from the beginning for making the students industry-ready
- Technical collaboration (MOU) with Kalyani Govt. Engineering College for high-end exposure.

Income & Expenditure for the assessment year 2021-2022

INDIAN INCOME TAX RETURN ACKNOWLEDGEMENT

[Where the data of the Return of Income in Form ITR-1 (SALARY), ITR-2, ITR-3, ITR-4(SLGANI), ITR-5, ITR-6, ITR-7 filed and verified]
(Please see Rule 12 of the Income-tax Rules, 1962)

Assessment Year
2021-22

PAN: NABED7180

Name: BHATTACHARYA ENGINEERING EDUCATION AND RESEARCH TRUST

Address: 4C, ANB ROY ROAD, KOLKATA, KOLKATA, NADIA, 32-West Bengal, 91-India, 700029

Status: AOP/BOI Form Number: ITR-7

Filing Date: 17/11/2021 Return filed on or before due date e-filing Acknowledgement Number: 15458164000022

Category	Sl. No.	Description	Amount
Taxable Income and Tax details	1	Current Year business loss, if any	0
		Total Income	17,87,281
	2	Book Profit under MAT, where applicable	0
	3	Adjusted Total Income under AMI, where applicable	0
	4	Net tax payable	1,67,611
	5	Interest and Fee Payable	0
	6	Total tax, interest and fee payable	1,67,611
	7	Taxes Paid	4,48,619
	8	(+) Tax Payable A - (Refundable (6-7))	(-), 45,000
	9	Dividend Tax Payable	0
Distribution Tax details	10	Interest Payable	0
	11	Total Dividend tax and interest payable	0
	12	Taxes Paid	0
	13	(+) Tax Payable A - (Refundable (11-12))	0
Accounting Income & Tax Detail	14	Accepted Income as per section 115TD	0
	15	Additional Tax payable u/s 115TD	0
	16	Interest payable u/s 115TD	0
	17	Additional Tax and interest payable	0
	18	Tax and interest paid	0
	19	(-) Tax Payable A - (Refundable (17-18))	0

Income Tax Return submitted electronically on 10/02/2022 16:43:19 from IP address 101.16.534 and verified by MAJIBHAKA BHATTACHARYA having PAN NABED7180 on 10/02/2022 16:43:19 using E-filing Authentication code X3N7W8N71 generated through Aadhaar OTP mode.

System Generated

Barcode/QR Code



WARRANTY INFORMATION: THIS DOCUMENT IS A COPY OF THE ORIGINAL DOCUMENT AND IS NOT VALID FOR ANY OTHER PURPOSE.

DO NOT SEND THIS ACKNOWLEDGEMENT TO ANY OTHER PERSON.

Computation of Taxable Income & Tax Liabilities of Bhattacharya Engineering Education and Research Trust, Resident Individual for the assessment year 2021-22 relating to the previous year 2020-21

	<u>Amount</u>	<u>Amount</u>
Income under the head "Business & Profession"		
Net Surplus		11,32,966.01
Income under the head "Other Sources"		
FD Int.	6,54,242.16	
SB Int.	73.00	6,54,315.16
	<u>Gross Total Income</u>	<u>17,87,281.17</u>
Less: Deduction Under Chapter VI-A		NIL
	<u>Net Total Income</u>	<u>17,87,281.17</u>
	<u>Rounded Off U/S 288A</u>	<u>17,87,280.00</u>
Tax on Total Income		
First	2,50,000.00 X NIL	NIL
Next,	2,50,000.00 X 5%	12,500.00
Next,	5,00,000.00 X 20%	1,00,000.00
Balance	7,87,280.00 X 30%	2,36,184.00
		<u>3,48,684.00</u>
Add: Cess @ 4%		13,947.36
		<u>3,62,631.36</u>
Add: Int. 234A		8,560.00
Add: Int. 234B		23,540.00
Add: Int. 234C		8,857.00
		<u>4,03,588.36</u>
Less: TDS		-48,619.00
Less: Advance Tax paid		-1,00,000.00
Less: Self Assessment Tax paid		-3,00,000.00
	<u>Tax Refundable</u>	<u>45,030.00</u>

MCCOM, F.C.A

M/S S. DE & CO
 CHARTERED ACCOUNTANTS
 "MANORAMA", B-13/54, KALYANI
 P.O.-KALYANI, DIST.-NADDA, W.B-741235
 E-MAIL: ID: mstrde@gmail.com
 Ph. No-03325826283, (Mob. no-1-9411142091)

SRIBATTACHARYA ENGINEERING EDUCATION AND RESEARCH TRUST
 HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
 MOUKTA-BALINDE, P.L. Rd-3, NADDA, P.S.-HARINGHATA, 741246 W.B.
 Balance Sheet as at 31.03.2022

Liabilities	Amount(Rs.)	Amount(Rs.)	Assets	Amount(Rs.)	Amount(Rs.)
Capital Account			Fixed Asset		
General Fund	59,66,962.25		Land		245,73,736.00
Add: Surplus	11,32,966.51		As per last A/c		
Add: Fd fund	6,54,242.15		Building	831,62,830.00	
Add: SH fund	71.00	68,54,183.42	As per last A/c	136,56,084.00	
			Add: This Year	695,06,746.00	
Members Fund		1086,24,669.00	Less: Depreciation 5%	-48,40,945.20	919,77,968.20
Bank/Bank Fund		5,25,669.00	Furniture	2,74,580.00	
Loans			As per last A/c	-27,495.00	2,47,085.00
As per last A/c	1509,66,392.00	1581,26,642.00	Less: Depreciation 10%		
Add: This year	74,70,140.00		Lab Equipments	15,47,281.00	
			As per last A/c	4,72,800.00	
			Add: This Year	20,20,081.00	
			Less: Depreciation 15%	-3,03,612.15	17,17,668.85
			Computer	3,530.00	
			As per last A/c	-2,212.00	3,318.00
			Less: Depreciation 40%		
			Electrical Equipments	5,06,693.00	
			As per last A/c	1,90,350.00	
			Add: This year	8,97,373.00	
			Less: Depreciation 15%	-1,38,658.55	7,62,714.45
Current Liabilities		2,30,360.00	Less: Depreciation 15%		
Salary Payable		75,000.00	Miscellaneous	31,934.00	
Accounting Charges Payable		10,000.00	As per last A/c	-4,790.10	27,143.90
Add: Fees Payable			Less: Depreciation 15%		
		1,31,356.13	Library Books	5,56,094.00	
Other Current Liabilities			As per last A/c	-4,43,496.90	8,12,607.10
Provision for purchase of Library books		10,00,000.00	Less: Depreciation 15%		
As per last A/c			Investments		
Provision for purchase of Lab Equipments		10,00,000.00	FD	548,66,223.00	
As per last A/c			As per last A/c	6,53,282.16	
			Add: Interest	555,20,465.16	
			Less: Mutual	-45,21,258.00	509,97,207.16
			ICICI Production	45,00,000.00	
			Add: This Year	-36,00,000.00	9,00,000.00
			Less: Mutual		
			Loan & Advance		
			Head Institute		865,00,000.00
			As per last A/c		
			Other Advance	7,50,350.00	
			As per last A/c	23,000.00	7,86,550.00
			Add: Education fees to govern'g bod		1,00,000.00
			Advance Tax		1,00,000.00
			Mutual Fund		126,80,000.00
			IDS		
			As per last A/c	4,74,513.00	
			Add: For FY 2020-21	48,619.00	5,23,132.00
			Closing Balance		
			Cash at Bank	33,97,554.81	34,13,582.19
			Cash in Hand	16,027.38	16,027.38
					2770,21,597.33
					2770,21,597.33

Mahesh Chatterjee
 Mahesh Chatterjee

Date: _____
 Place: Kalyani



Signed at terms of our audit report of even date
 M/s S. DE & Co.
 Chartered Accountants
 Reg. No. 322250E
 (Signature)
 (Proprietor)
 Membership No. -056196

10 FEB 2022

BHATTACHARYA ENGINEERING EDUCATION AND RESEARCH TRUST
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
 MOUJA- BALINDI, J.L. NO. 7, NADIA, P.S.- HARINGHATA, W.B. 741246
 Income and Expenditure Account for the For The Year ended 31.03.21

Dr.	Expenditure		Income		Cr.
	Amount(Rs.)	Amount(Rs.)		Amount(Rs.)	Amount(Rs.)
	Indirect Expenses			Indirect Income	
To Salary & Allowance		59,17,399.00	By Student Fees		195,93,363.00
To Printing & Stationery		62,390.00	By Misc. Receipts		47,950.00
To Accounting Charges		75,000.00			
To Exam Fees		11,42,300.00			
To Audit Fee		10,000.00			
To Bank Charge		1,308.19			
To Car Driver & Fuel Charges		5,00,000.00			
To College Festival Exp.		3,12,650.00			
To Depreciation		54,56,464.80			
To Misc. Exp.		1,41,360.00			
To Dress to college Staff		6,25,800.00			
To Electrical Maintenance		3,72,600.00			
To Electricity charges		3,70,000.00			
To Advertisement		40,500.00			
To Internet expenses		52,000.00			
To Local Conveyance		1,17,425.00			
To Office Exp.		2,72,500.00			
To Postage & Stamp		42,700.00			
To Travelling Exp.		2,43,700.00			
To Registration Fee		2,03,450.00			
To Repair & maintenance		4,90,700.00			
To Seminar Expenses		3,00,000.00			
To Student Counselling Exp.		1,35,000.00			
To Tea, Tiffin & Refreshment		75,000.00			
To AICTE Annual Fees		75,000.00			
To College Land Lease		74,475.00			
To Gardening Expenses		70,125.00			
To Sanitary & Sanitisation Expenses		1,62,900.00			
To Insurance		12,000.00			
To External Examination Fees		1,00,000.00			
To Guest Lecture Fee		6,50,000.00			
To Plumbing Charges		2,50,000.00			
To Renewal Charges		30,000.00			
To MAKAUT University Charges		1,20,000.00			
To Surplus (Excess of income over expenditure)		11,32,966.01			
		<u>196,41,313.00</u>			<u>196,41,313.00</u>

Date :-

Place- Kalyani

Signed in terms of our audit report of even date

For M/S S. De & Co.
 Chartered Accountant
 Firm. Reg No. 322250E



BHATTACHARYA ENGINEERING EDUCATION AND RESEARCH TRUST
HEMNALINI MEMORIAL COLLEGE OF ENGINEERING
 MOUJA- BALINDI, J.L. NO. 7, NADIA, P.S.- HARINGHATA, 741246 W.B.

<u>Fixed Assets & Depreciation</u>								
Schedule annexed to and forming part of Balance for list of Fixed Assets & Depreciation allowable for the year 31-03-2021								
GROSS BLOCK								
S.N.	PARTICULARS	% Dep	Balance as at 01-04-2020	Purchase upto 30.09.2020	Purchase after 30.09.2019	Dep. During The Year	W.D.V As on 31.03 2021	Net Block as at 31-03-2021
1	Furniture	10%	2,74,950.00	-	-	27,495.00	2,47,455.00	2,47,455.00
2	Land	-	245,78,736.00	-	-	-	245,78,736.00	245,78,736.00
3	Building	5%	871,62,830.00	-	136,56,084.00	48,40,945.70	919,77,968.30	919,77,968.30
4	Computer	40%	5,530.00	-	-	2,212.00	3,318.00	3,318.00
5	Lab Equipments	15%	15,47,281.00	-	4,72,600.00	3,05,012.15	17,17,068.85	17,17,068.85
6	Library Books	15%	9,56,006.00	-	-	1,43,400.90	8,12,605.10	8,12,605.10
7	Electrical Equipmen	15%	5,06,693.00	-	3,98,700.00	1,34,608.95	7,62,794.05	7,62,794.05
8	Mini Generator	15%	31,634.00	-	-	4,796.10	27,143.90	27,143.90
			1110,63,960.00	-	145,19,584.00	54,56,464.80	1201,27,079.20	1201,27,079.20

Mohit


[Signature]


10 FEB 2022