MANDATORY DISCLOSURE

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION)

Pailan College of Management and Technology (B.Tech Division)

Bengal Pailan Park, Sector-I, Phase-I,

Amgachia Road (Off.Diamond Harbour Road),

Joka, Kolkata-700104, South 24 Parganas, West Bengal.

Updated On: 03-12-2025

Mandatory Disclosure

Pailan College of Management & Technology (B.Tech. Division)

1.	**Name oftheInstitution:**	**Pailan College of Management & Technology (B.Tech. Division)**
	Address:	Bengal Pailan Park, Sector – 1, Phase-1, Joka, (Off. Diamond Harbour Road), Kolkata- 700 104, South 24 Parganas, WestBengal.
	Telephone:	033-24535605
	Mobile:	9830448726
	E-Mail:	principal@pcmt-india.net
	Website:	www.pcmt-india.net
2.	**Name and address of the Trust/ Society/ Company and the Trustees:**	**PAILAN EDUCATIONAL TRUST**
	Address:	127, Kankulia Road, Kolkata, West Bengal
	Telephone:	033-24535605
	Mobile:	9874866131
	E-Mail:	oppositemoon20@gmail.com
3.	**Name and Address ofthePrincipal:**	**Dr. Rajarshi Sanyal**
	Address:	Ambika Kundu Bye Lane, Burir Bagan, PO: santragachi Dist :Howrah Pin 711104 West Bengal
	Telephone:	033-24535605
	Mobile:	9830448726,9903028131
	E-Mail:	principal@pcmt-india.net
4.	**Name of theaffiliatingUniversity:**	**Maulana Abul Kalam Azad UniversityofTechnology,WestBengal.** (Formerly Known as West Bengal University ofTechnology)

5. Governance

- **Members of the Board and their briefbackground**

  Details of the Governing Body Members are given below:-

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

Governance

Members of the Board

Details of the Governing Body Members are given below:-

SL No	NAME	DESIGNATION
1	Dr Amitava Sarkar	Former Professor and Director, Indian Institute of Social Welfare & Business Management (IISWBM)
2	Professor (Dr.) Sitanath Mazumdar	Professor, Dept. of Business Management, University of Calcutta
3	Prof.(Dr.) Saibal Kumar Mukhopadhay	Director and joint Secretary, IBM
4	Dr. Alok Agrawal	M.S,PH.D(EYE) FMRF, FSNEC, UVEA & MEDICAL RETINA SPECIALIST
5	Dr Shivaji Banerjee	Assistant Professor , Dept of Commerce , St. Xavier's College
6	Mr. Goutam Biswas	Director, Duragen Energy Pvt Ltd
7	Mr Adarsh Tandon	Head of Training , Associate Vice President , HSBC
8	Dr Indranil Mukherjee	Associate Prof. Civil Eng Dept , Aliah University
9	Prof. (Dr.)Angsuman Sarkar	Professor, Department of ECE, Kalyani Govt. Engineering College
10	Dr.Alok Kole	Professor, Department of EE, RCC Institute of Information Technology
11	Mr. Sanjay Chatterjee	Chair of NASSCOM East and National Council Member of NASSCOM SME, Co-founder & Director Entiovi Technologies,Co-founder & Managing Partner Xafe.ai,Co-founder Convech, Director of the Board & CTO of Ideal Analytics Solution.
12	Mr. Gautam Sarkar	Former Indian Bengali International Footballer
13	Mr. Soumen Mitra	Retired IPS
14	Dr. Ranjan Mukherjee	Ophthalmologist, LLB, Medico Legal Consultant
15	Dr. Jhilam Rudra De	Principal, Kingstone College
16	Adv. Biplab Goswami	Advocate
17	Dr. Debasis Ray	Principal-PCMT (MBA Division)
18	Mr. Kunal Chakraborty	Registrar, Pailan Group of Institutions
19	Dr. Rajarshi Sanyal	Principal, PCMT B. Tech Div.

Members of Academic Advisory Body

Ref. No: PCMT/296/Director/Advisory/25/2025

Date:23/12/2025

Sub: Reconstitution for Members of Academic Advisory Body

The objective of constituting an Advisory Council is to recommend policy matters for holistic development of the Institute. Advisory Council is comprising of following members:-

Rajarshi Sanyal 23/12/25

Principal
Pailan College of Management & Technology
B.Tech Div.
Kolkata - 700 104

- **Members of Academic AdvisoryBody**

Academic Advisory Committee

Sl. No.	Name	Designation	Role	Mobile No.
1	Dr. Rajarshi Sanyal	Principal	Chairperson& Convener	9830448726
2	Mr. Kunal Chakraborty	Registrar ,PGI	Member	9830087891
3	Dr. Manas Roy	Principal – PCMT(Non-AICTE)	Member	9263631439
4	Dr. Debasis Ray	Principal,MBA Division	Member	8017921009
5	Dr. Susmit Bagchi	Professor, CSE	Member	9038950251
6	Ms. Prama Naskar	Assistant Professor, CE	Member	9681913272
7	Mrs. Sucharita Ghorui	Assistant Professor& Coordinator EEE	Member	9674891689
8	Dr. Anandalal Gayen	Assistant Professor, BSc & HU	Member	9432817863
9	Mr. Anjan Patra	Architect cum Urban Planner	External Expert from Industry	9910746299
10.	Prof. Asif Ahmed	Assistant Professor North Eastern Hill University ,Shilong	External Expert from Academic	9485043429
11.	Dr. Sourav Mallik	Post Doctoral Fellow at Harvard University ,USA	External Expert from Academic	+16462504939

Academic Council shall meet twice in a academic year. Recommendation of the committee is submitted to the Vice-Chairperson of the Institute for management advice on the relevant issues.

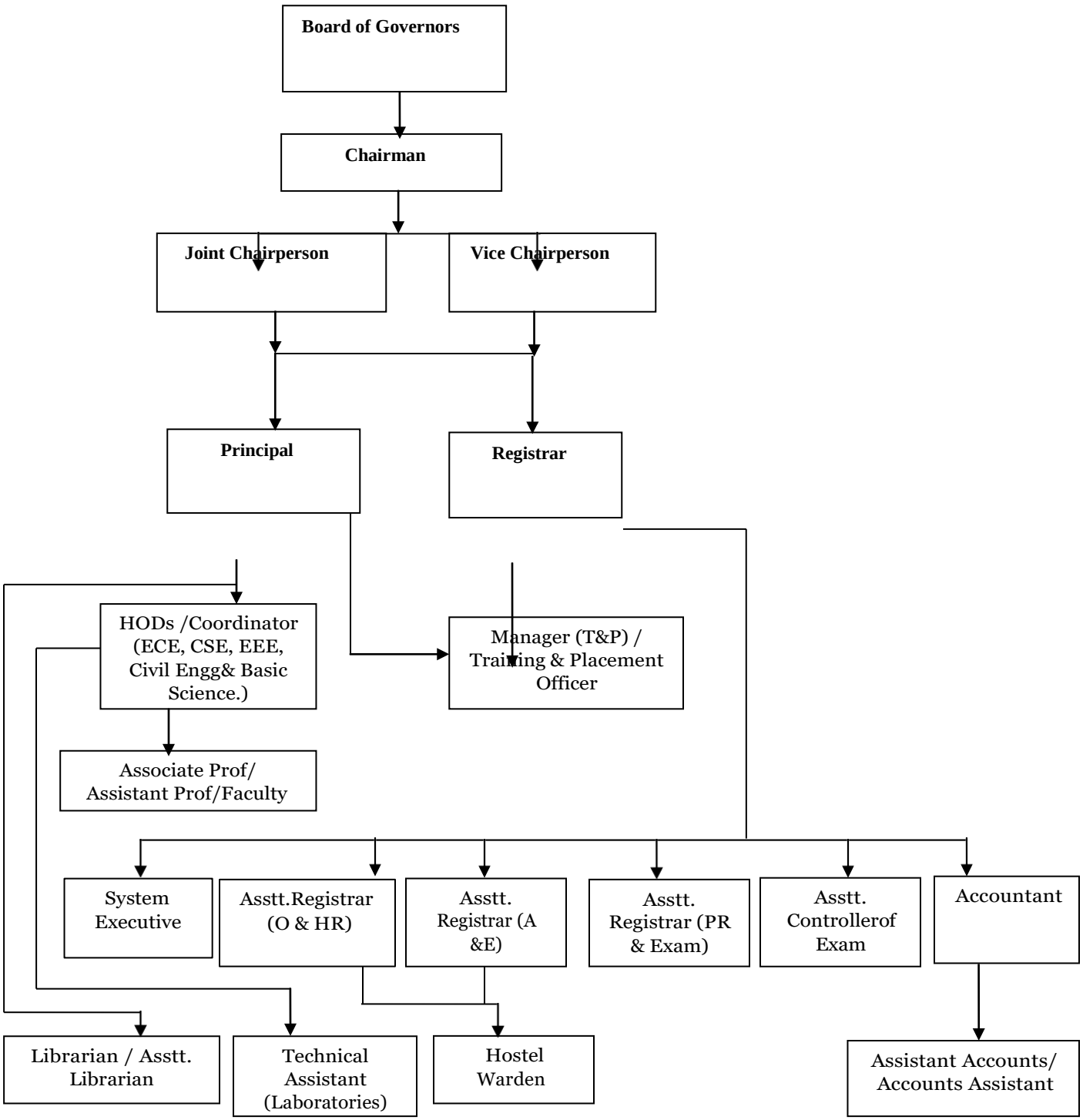
- **Frequently of the Board Meeting and Academic Advisory Body:**

  Frequency of meetings: 4 times in a year

  Date of Last meeting:24th February 2020.

- **Organizational chart andprocesses**

  Organization chart is as given below:-



PAILAN EDUCATIONAL TRUST

Ref. No: PCMT/156/Principal/ARC/2302/2025 Date: 03/12/2025

NOTICE

On Anti-Ragging Committee of PCMT (B.Tech Division)

Anti-Ragging Committee is being reconstituted as below as per All India Council for Technical Education (AICTE) Notification F.No. 37-3/Leal/AICTE/2009 dated 01.07.2009 and also as per UGC Regulation F.1—16/2007(CPP-11) dated 17.06.2009, for prevention and prohibition of ragging in the campus of Pailan College of Management & Technology (including its hostel premises).

The members of the committee are as follows:

Sl. No.	Name	Designation	Role	Mobile No.
1	Dr. RajarshiSanyal	Principal	Chairperson	9830448726
2	Mr. Soumya Chatterjee	Assistant Professor	Member & Convener	9874710989
3	MoonMoon Saha	Representative of Management	Member	9874866131
4		Representative of DM, South 24 Parganas	Member	
5		Representative of O/C, Bishnupur P.S.	Member	
6		Representative of CINI	Member	
7		Representative of ABP Pvt. Ltd.	Member	
8	Mr.Indrajit Pahari	Assistant Professor	Member	7908771726
9	Mr.Tapaspattanayak	Assistant Professor	Member	9800338857
10	Mrs Basanti Bhattacharya	Assistant Professor	Member	8777309738
11	TanajitManna	Assistant Professor	Member	9831721959
12	Ms BijoyiniBagchi	Assistant Professor	Member	9007474622
13	Ms Tousi Adak	Assistant Professor	Member	9635423491
14	Mousumi Bhattacharya	Assistant Controller of Examination	Member	9830357024
15	ShyamalSardar	Warden of Boys' Hostel	Member	9836648995
16	ShilpiSaha	Warden of Girls' Hostel	Member	9874353877
17	BidishaBhattacarya	Student	Member	7044790513
18	Adarsh Pandey	Student	Member	8617758589

Rajarshi Sanyal 3/12/25

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

Ref. No: PCMT/156/Principal/IQAC/2221/2025 Date: 03/12/2025

NOTICE

On IQAC Committee of PCMT (B.Tech Division)

Internal Quality Assurance Cell (IQAC) for Pailan College of Management & Technology for B.Tech Division is reconstituted with objective to develop a mechanism to promote conscious, consistent and catalytic action plans to improve the academic and administrative performance of the Institute. The Committee comprises of the following members

The members of the committee are as follows:

1. Dr. Rajarshi Sanyal, Principal – Chairperson
2. Mr. Soumya Chatterjee, Assistant Professor, ECE - Co-coordinator of IQAC
3. Mr. Kunal Chakraborty – Registrar, PGI, Representative of Management
4. Dr. Manas Roy, PCMT (Non AICTE)-Member
5. Dr. Sushmit Bagchi – Professor – CSE -Member
6. Ms. Prama Naskar – Assistant Professor, CE – Member
7. Ms. Tithi Das – Assistant Professor, EEE, - Member
8. Dr. Pinaki Ranjan Ghosh – Asst. Professor, General Sc. & HU – Member
9. Ms. Mousumi Bhattacharya – Assistant Controller of Examination – Member
10. Mr. Nabin Chandra Pramanik – Accountant, PCMT
11. Mr. Niladri Mondal – Student, CSE 7th Sem (Nominee from students)
12. Ms. Soma Chakraborty – Nominee from Parent/Stakeholder
13. Ms. Priya Mitra – EX Student B.Tech CSE (Nominee from Alumni)
14. Mr. Nilanjan Kar – Civil Engineer , Garden Reach Ship Builder ,Nominee from Industry

Members are requested to start working immediately and meet amongst themselves at least once in a month and decide their course of action. Minutes of the meeting conducted by them are to be maintained by Co-coordinators and submitted to the undersigned and soft copy should be sent to the Vice Chairperson, PGI, immediately after every meeting.

Rajarshi Sanyal
(Dr. Rajarshi Sanyal) 8/12/25
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: a) Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

Ref. No: PCMT/156/Principal/ARC/2302/2025 Date: 03/12/2025

NOTICE

On Anti-Ragging Committee of PCMT (B.Tech Division)

Anti-Ragging Committee is being reconstituted as below as per All India Council for Technical Education (AICTE) Notification F.No. 37-3/Leal/AICTE/2009 dated 01.07.2009 and also as per UGC Regulation F.1—16/2007(CPP-11) dated 17.06.2009, for prevention and prohibition of ragging in the campus of Pailan College of Management & Technology (including its hostel premises).

The members of the committee are as follows:

Sl. No.	Name	Designation	Role	Mobile No.
1	Dr. Rajarshi Sanyal	Principal	Chairperson	9830448726
2	Mr. Soumya Chatterjee	Assistant Professor	Member & Convener	9874710989
3	MoonMoon Saha	Representative of Management	Member	9874866131
4		Representative of DM, South 24 Parganas	Member	
5		Representative of O/C, Bishnupur P.S.	Member	
6		Representative of CINI	Member	
7		Representative of ABP Pvt. Ltd.	Member	
8	Mr.Indrajit Pahari	Assistant Professor	Member	7908771726
9	Mr.Tapas pattanayak	Assistant Professor	Member	9800338857
10	Mrs Basanti Bhattacharya	Assistant Professor	Member	8777309738
11	Tanajit Manna	Assistant Professor	Member	9831721959
12	Ms Bijoyini Bagchi	Assistant Professor	Member	9007474622
13	Ms Tousi Adak	Assistant Professor	Member	9635423491
14	Mousumi Bhattacharya	Assistant Controller of Examination	Member	9830357024
15	Shyamal Sardar	Warden of Boys' Hostel	Member	9836648995
16	Shilpi Saha	Warden of Girls' Hostel	Member	9874353877
17	Bidisha Bhattacarya	Student	Member	7044790513
18	Adarsh Pandey	Student	Member	8617758589

Rajarshi Sanyal

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

Principal
Pailan College of Management & Technology
B.Tech Div.
Kolkata - 700 104

PAILAN EDUCATIONAL TRUST

Ref. No.: PCMT/156/Principal/Committee/2303/2025 Date: 03/12/2025

Sub: Reconstitution of Internal Complaint Committee as per AICTE notification

As per Section 4 of All India Council for Technical Education (Gender Sensitization, Prevention & Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievance in Technical Institution) Regulations, 2016 (AICTE Notification F. No. AICTE/WH/2016/01 dated 10.06.2016), Internal Complaint Committee for Pailan College of Management & Technology (B.Tech Division) is constituted with an objective of resolving complaint pertaining to gender sensitization and sexual harassment of girl students, their parents and lady employees of the college. The committee consists of the following members:

SL. No	Name	Designation	Role	Mobile No
01	Dr .Sushmit Bagchi	Professor	Member & Convener	8337053048
02.	Mr. Kunal Chakraborty	Registrar	Member	9830087891
03.	Ms. Tousi Adak	Assistant Professor, CSE	Member	9635423491
04.	Dr. Anadalal Gayen	Assistant Professor, BSH	Member	9432817863
05.	Avipsa Padhi	Admin.Executive (UA&LA)	Member	9874847555
06.	Niladri Das	HR Manager	Member	8240627016
07.	Debangshu Pradhan	Student, CSE 5th Semester	Member	9875551753
08.	Rajib Das	Student, CSE 5th Semester	Member	6290562800
09.	Adarsh Pandey	Student, CSE 7th Semester	Member	8617758589

Members are requested to start working process immediately and decide their course of action.

Rajarshi Sanyal 26/12/25

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology

Principal
Pailan College of Management & Technology
B.Tech Div.
Kolkata - 700 104

To: a) Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

Ref. No. : PCMT/156/Principal/SC&ST/2305/2025 Date: 03/12/2025

Sub: Reconstitution of SC/ST committee as per AICTE notification

SC/ST Committee of the Institute, Pailan College of Management and Technology, for B.Tech Division is being reconstituted as per the Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act. 1989, No. 33 of 1989 dated 11.06.1989, to prevent commission of offences of atrocities against the members of the Scheduled castes and the Scheduled Tribes, the Committee comprises of the following members:

Sl No	Name	Designation	Role	Mobile No
1.	Dr. Rajarshi Sanyal	Principal	Chairperson	9830448726
2.	Mr.Tanaji Manna	Assistant Professor	Member	9831721959
3.	Ms. Prama Naskar	Assistant Professor	Member & Convener	9681913272
4.	Mr. Shyamal Sardar	Hotel Warden	Member	9836648995
5.	Ms Marjina Molla	Office Assistant	Member	9830828766

Members are requested to start working process immediately and meet amongst themselves at least once in three months and decide their course of action. Minutes of the meeting is to be maintained by Convener and submitted to the undersigned.

Rajarshi Sanyal

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: a) Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

PAILAN EDUCATIONAL TRUST

Ref. No: PCMT/156/Principal/comm/2304/2025 Date: 03/12/2025

Sub: Constitutions of Internal Committee (IC) details

Internal Committee for B.Tech Division, is being constituted as perAICTE (Internal committee) regulation, 2019, for establishment of grievance redressal mechanism, comprising of following personnel for Pailan College of Management & Technology with an objective to provide opportunities of certain grievances of students already enrolled in this institution:-

The members of the committee are as follows:

Sl.	Name	Designation	Role	Mobile No.
1	Dr. SusmitBagchi	Professor	Chair Person	9038950251
2	Dr. Arnab Deb	Assistant Professor	Member	9436332252
3	Ms Avipsa padhi	Student Cell	Member	9874847555
4	Mr. Kaushik Basu	Teacher Cell	Member	9073983034
5	Mr. Sourav Panda	Student	Class Representative	7001984697
6	Ms Bidisha Bhattacharya	student	Class Representative	7044790513

Members are requested to implement the above working process immediately as previous years and meet amongst themselves to decide their course of action.

Rajarshi Sanyal 8/12/25

Dr. Rajarshi Sanyal
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: a) Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

Principal
Pailan College of Management & Technology
B.Tech Div.
Kolkata - 700 104

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

Ref. No: PCMT/156/Principal/comm/2304/2025 Date: 03/12/2025

Sub: Constitutions of Internal Committee (IC) details

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Rajarshi Sanyal

Dr. Rajarshi Sanyal
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: a) Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

Ref. No. : PCMT/156/Principal/SC&ST/2305/2025

Date: 03/12/2025

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3.	Ms. PramaNaskar	Assistant Professor	Member & Convener	9681913272
4.	Mr. Shyamal Sardar	Hotel Warden	Member	9836648995
5.	Ms Marjina Molla	Office Assistant	Member	9830828766

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Rajarshi Sanyal 8/12/25
(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: a) Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

INBUILT MECHANISM FOR SOCIAL AND EMOTIONAL LEARNING

Pailan College of Management and Technology has proposed the implementation of an inbuilt mechanism for Emotional and Social learning which recognizing it as a crucial component of education as emphasized by AICTE in alignment with NEP 2020. As part of this initiative, Universal Human Values are introduced as an add-on subject in the model curriculum and are imparted through workshops and guest lectures, since the affiliating university does not provide academic credits for the subject. This initiative aims to nurture socially responsible, emotionally balanced, and ethically grounded individuals, thereby strengthening the foundation of a technically competent ecosystem. AICTE, in its continued endeavour to enhance the future of technical education in India, has consistently focused on integrating SEL through various policy initiatives aligned with NEP 2020, including short- and medium-term perspective plans addressing emerging technological areas. By organizing workshops, conferences, and stakeholder consultations, AICTE remains responsive to global technological changes while promoting holistic education that contributes to nation-building and sustainable development.

PCMT/156/Principal/ARC/2302/2025/36 Date: 03/12/2025

CERTIFICATE

Pailan College of Management and Technology has proposed to implement "The electives mandatorily through SWAYAM/ MOOCs platform" internship compulsory for all final year students". The affiliating university (MAKAUT West Bengal) is keen in introducing the same. It is proposed as follows: MOOCs through SWAYAM Platform: It is proposed to have five professional elective courses and four open elective courses, which are Choice Based Credit Courses (CBCC), offered from V semester onwards. Among them, one elective course shall be pursued through MOOCs. The student shall register for the course (Minimum of 12 weeks) offered by SWAYAM with the approval of Head of the Department. The Head of the Department shall appoint one mentor to monitor the student's assignment submissions given by SWAYAM. The student needs to earn a certificate by passing the exam. The student shall be awarded the credits assigned in the curriculum only by submission of the certificate. Examination fee, if any, will be borne by the student. A Student must complete the SWAYAM MOOC course in all respects on or before 5 / 6 / 7 semester. Necessary amendments to the rules and regulations regarding adoption of SWAYAM MOOCS courses would be proposed from time to time. Credit Equivalence for SWAYAM MOOCs

You may Registered through the link: **http://swyam.gov.in/nc_details/NPTEL**
Courses: Courses of 04 weeks duration: 01 Credits
Courses of 08 weeks duration: 02 Credits
Courses of 12 weeks duration: 03 Credits
Courses of 16 weeks duration: 04 Credits

Rajarshi Sanyal 8/12/25

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

Principal
Pailan College of Management & Technology
B.Tech Div.

Mediclaim Policy for the Students

In order to care for health condition of the Students, Pailan College of Management and Technology has already applied and will launched the policy soon.

MENTAL HEALTH COUNCELLING

Pailan College of Management and Technology provides the mental health caring counsel for Students, Teachers and Non Teaching Staffs ensuring that students can seek help from anywhere without geographical barriers. It provides confidential tele-counselling, maintaining complete privacy and trust for users. Professional support is available for managing stress, exam anxiety, and various emotional issues, helping students maintain mental well-being and academic focus. When necessary, appropriate referral guidance is also provided, connecting individuals to specialized care or support services for further assistance.

PAILAN EDUCATIONAL TRUST

Ref.: PCMT/NAD/Registrar/1029/2023 Dated: 23.05.2023
Email-ID: nad@nsdl.co.in

To,
National Academic Depository,
4th Floor, Trade World, 'A' Wing
Kamala Mills Compound
Lower Parel Mumbai - 400 013.

Sub: Application for Registration Form of National Academic Depository

Dear Sir,
We like to draw your kind attention that Pailan College of Management & Technology (B.Tech Division), an Institute approved by All India Council for Technical Education (Institute permanent ID allotted by AICTE: 1-25756281), is conducting full time 4 year duration course of Engineering & Technology program at UG level at its permanent premises at Bengal Pailan Park, Sector-1, Phase-1, Amgachia Road, Joka (Off Diamond Harbour Road), Kolkata ,South 24 Parganas, West Bengal, Pin-700104 since the year of 2008; the institution is affiliated to the Maulana Abul Kalam Azad University of Technology, West Bengal.

We hereby desire to register the institute with National Academic Depositary and the relevant particulars of institute as desired by NAD are given herein below:-
1) Name of Academic Institution: Pailan College of Management & Technology (B.Tech Division)
2) Name and Designation of Contact person: Ms. Moon Moon Mahesh
3)Address: Bengal Pailan Park, Sector-1, Phase-1, Amgachia Road, Joka (Off Diamond Harbour Road), Kolkata ,South 24 Parganas, West Bengal, Pin-700104,
4) Contact No.: 9874866131
5) Email ID: oppositemoon20@gmail.com / system@pcmt-india.net

We shall be highly thankful for your kindly advice to forward the Registration Form at the earliest at above email-ID in order to enable us to register our institute with National Academic Depository.
Regards,
Yours truly,
Kunal Chakraborty
(Mr. Kunal Chakraborty)
Registrar,
Pailan College of Management & Technology (B.Tech Division)
Bengal Pailan Park, Sector-1, Phase-1, Amgachia Road,
Joka (Off Diamond Harbour Road), Kolkata,
South 24 Parganas, West Bengal-700104
Phone-033 2453 5605

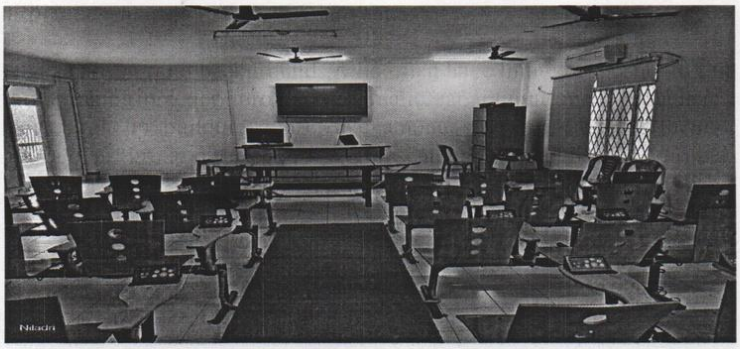
Language Laboratory

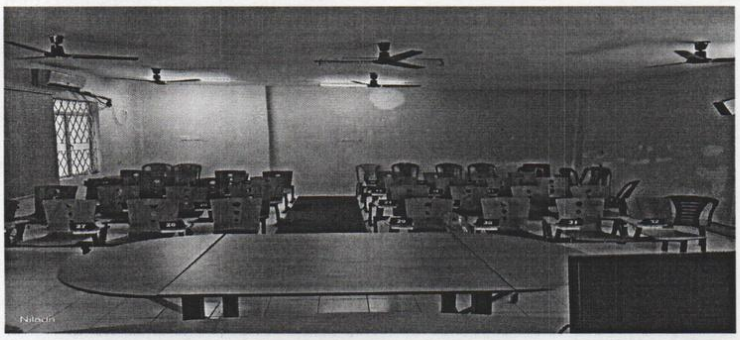
The Pailan College of Management and Technology is equipped with a modern Language Laboratory featuring state-of-the-art audio-visual facilities designed to enhance language learning. The laboratory is effectively utilized by both students and faculty for self-improvement, communication enhancement, and soft skill development activities. It is particularly beneficial for students who face difficulties in using the English language.

Students from rural backgrounds, who often have limited exposure to English, gain valuable listening and speaking practice through systematic ear training in the language lab. The laboratory plays a crucial role in building confidence among students, enabling them to participate effectively in interactions, group discussions, and presentations in English. The primary objective of the Language Laboratory is to provide a supportive platform for developing English proficiency, communication competence, and essential soft skills required for academic and professional success.

The main objectives of the Language Laboratory are:

1. To inculcate the students with good communication skills.
2. To accentuate the need of English in the technical world.
3. To make the students competent enough for interviews in future job environments





PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

MOU'S WITH INDUSTRIES

SL. NO.	MOU'S COLLABORATION WITH	DATE OF COLLABORATION	PURPOSE
1	Omega Tech Lab	29.04.2022	To prepare students to pursue industry recognized certifications
2	Code Chef	10.03.2022	To train and provide learning to students with Coding
3	Euphoria Genx	21.03.2022	Workshop, Seminar, Internship, Training
4	Gaperud Private Ltd.	04.04.2022	To train students with IOT based workshop
5	Dreamers Stop	08.04.2022	To provide students career counseling and mentoring

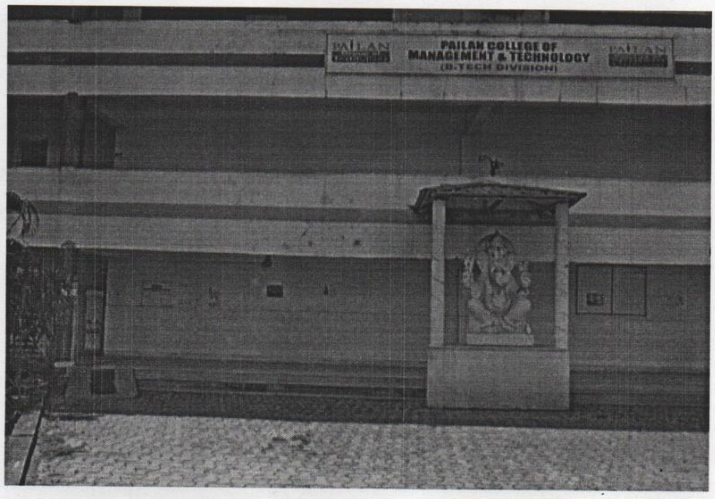
PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Barrier Free Built Environment for disabled and elderly persons

Building has one entrance accessible to the physically challenged and which have been shown from outside entry of the building. The entrance is approached through a ramp together with the stepped entry.

Lift space have been provided with all provisions in the structure of the building but it is being considered to implement immediately for the physically challenged candidates and others.

Photographs are attached herewith below.



Rajarshi Sanyal 8/12/25
(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

DISPLAY OF COURSE AND APPROVED INTAKE IN THE INSTITUTION AT THE ENTRANCE OF THE INTUITION

PAILAN
College of
Management
& Technology

Pailan College of Management & Technology : Bengal Pailan Park, Sector- I, Phase - I, Amgachia Road (off D.H. Road) Joka, Kolkata - 700 104

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY (B. TECH DIVISION)

(AICTE EOAF. NO. Eastern/1-3510671998/2018/EOA DATED 10.04.2018

Name of Course	Approved Intake			
	2019-20	2020-21	2021-22	2022-23
COMPUTER SCIENCE & ENGINEERING	60	60	60	60
ELECTRONICS & COMMUNICATION ENGINEERING	60	60	30	30
ELECTRICAL & ELECTRONICS ENGINEERING	60	30	30	30
CIVIL ENGINEERING	60	60	30	30

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY (MBA DIVISION)

(AICTE EOAF. NO. Eastern/1-3509845461/2018/EOA DATED 04.04.2018

Name of Course	Approved Intake			
	2019-20	2020-21	2021-22	2022-23
MASTER IN BUSINESS ADMINISTRATION (MBA)	30	30	30	30

STUDENT ARE ADVISED TO GIVE THEIR FEEDBACK (IF ANY) IN THE FORM AVAILABLE IN THE INSTITUTIONAL WEB-SITE AS WELL AS IN THE RELEVANT LINK ON AICTE WEB-PORTAL

Registrar
Pailan College of Management & Technology

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Backup Electric Supply

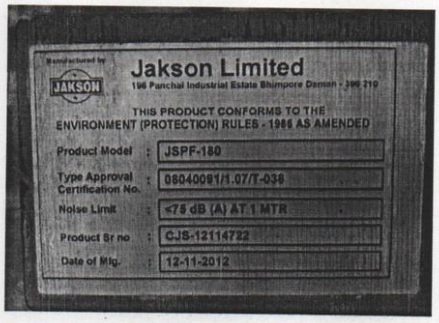
A complete backup power system with an emergency generator as the centerpiece (and other supporting components) is typically the most effective solution. A generator includes an engine, alternator, cooling system, and a control system. Engines are commonly diesel. A backup generator combined with an Uninterrupted Power Supply (UPS) and an Automatic Transfer Switch (ATS) all work together to provide constant power during a utility power outage when properly set up.

When an outage occurs, and a backup power system is in place, a basic sequence of events occurs:

1. Utility power is lost. UPS immediately assumes the load.
2. ATS senses the main outage, starts the generator up, and switches the load to the generator when ready
3. Utility power is restored. ATS switches the load back to utility.
4. ATS sends the signal for the generator to gradually be powered down.
5. UPS switches back to charging mode.

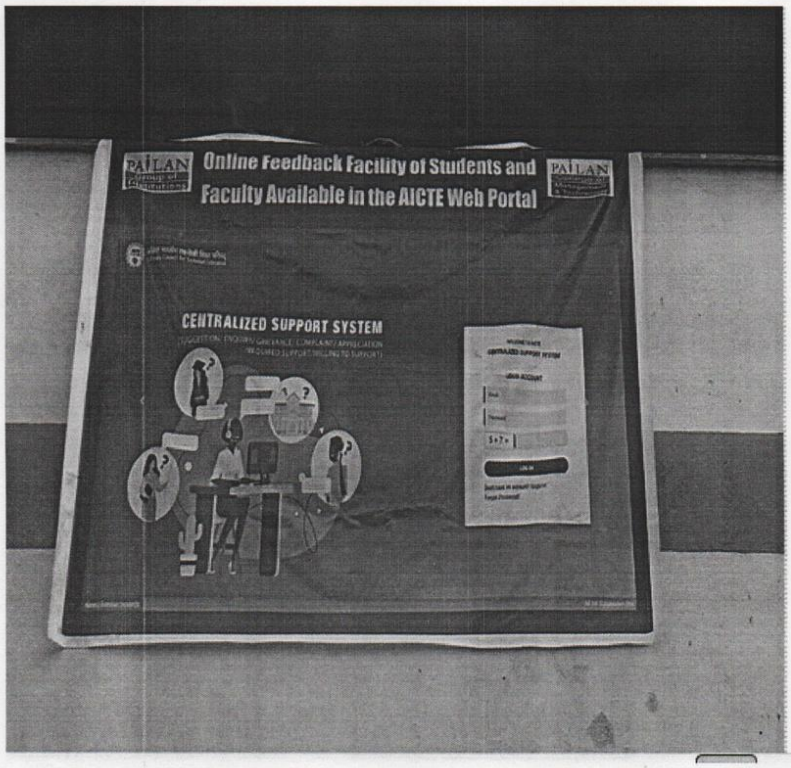
Generator Source offers a complete line of two backup generators for 1) 10 KVA and 2) 180 KVA. The following two generators is providing high-quality backup (electricity) system and solutions to buildings,

Pictures are attached herewith



PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Display Board indicating feedback facility



Display Board indicating feedback facility

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.Tech Division)

Electricity Grid Power Supply Connection

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.Tech Division)

Digital Payment for all financial transaction

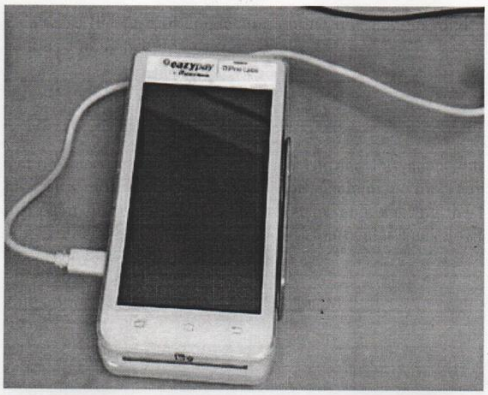
We have currently four methods (likely Net banking, mobile apps, UPI transfer & POS machine) of digital payment available in our institution. Parents also can pay using these payment facilities. The digital payment system in our institution will also save administrators' time as they don't have to handle all that wads of cash, count it, and store it inside the safe.

A digital payment system is extremely cost-effective and saves many costs for both institutions and parents. It saves the costs of ledgers, registers, fee cards, and other paper-based documents for educational institutions. It saves the transportation costs for parents and gives them the freedom to pay from their offices or homes. The main objectives of digital transactions are to reduce the costs and risks of handling cash, increase the ease of conducting online transactions, and increase transparency among monetary transactions among people

Top of Form

We accept the different transaction payment mode such Unified Payments Interface (UPI), Mobile Wallets, PoS Terminals. The most common type of PoS machine is for Debit and Credit cards, where student can make payment by simply swiping the card and entering the PIN. We also accept through Internet banking, allow the students/parents of a particular bank to make transactions and conduct other financial activities

Through virtual banking option available. NEFT, RTGS, or IMPS_



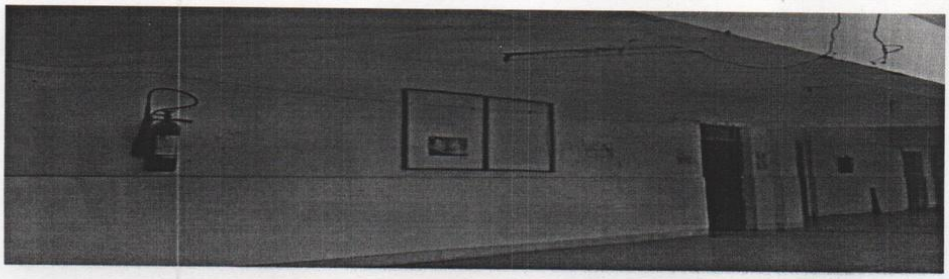
PoS machine image in our Accounts department for direct transaction of students.

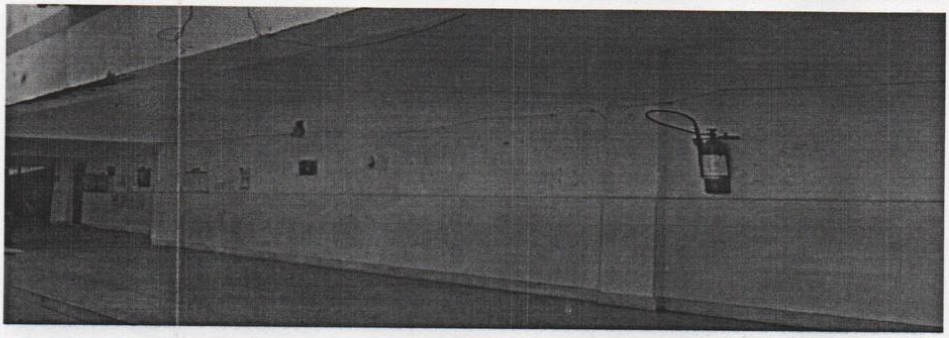
PAILAN EDUCATIONAL TRUST

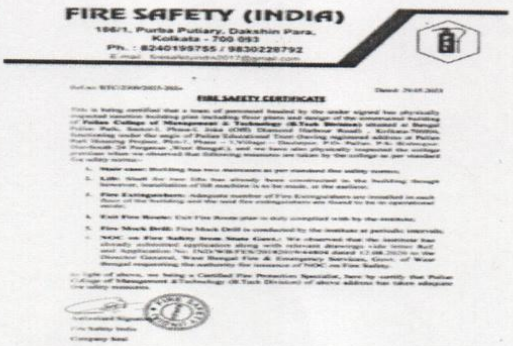
PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(B.Tech Division)

Fire Safety & Certificate







FIRE SAFETY (INDIA)

196/1, Purba Putiary, Dakshin Para,
Kolkata - 700 093
Ph. : 8240199755 / 9830228792

FIRE SAFETY CERTIFICATE

OUR ALL BRAND ARE ISI ® MARKED

8/12/23

(Dr. Rajarshi Sanyal)

Principal,
Pailan College of Management and Technology (B.Tech Division)

OFFICE OF THE PRINCIPAL PAILAN COLLEGE OF MANAGEMENT AND TECHNOLOGY, JOKA, KOLKATA 700104

Ref. No.: PCMT/156/Principal/Committee/2313/2025 Date: 03/12/2025

IMPLEMENTING FOOD SAFETY AND STANDARD ACT, 2006 IN THE INSTITUTION

FOOD SAFETY AND STANDARD ACT, 2006 is implemented in the Institute.

Rajarshi Sanyal 8/12/25

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

First Aid, Medical and Counseling Facilities

Pailan College of Management & Technology (PCMT) provides medical facilities through a medical aid setup in the college campus equipped with all its necessities providing first aid medication to the students and needy staff members as well during the college hours. PCMT students (Boys and Girls) were provided medical facilities and at times the staff members of the college were also provided the first aid. College provides medical aid facilities to the students who participated in intra and inter college sports competitions. In addition to this college organize regularly awareness programmers. First aid is the initial treatment given to a victim. Some injuries do not require professional assistance. Our staff members can use simple methods such as applying an ice pack etc. First aiders can help the affected person feel better and relieve pain by performing simple procedures. People equipped with first aid skills can handle emergencies in an efficient manner. Their quick response and right methods of treatment can help save lives.
Our sick room image is attached herewith below:

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(B.Tech Division)

Institution Industry Cell

The objective of the Institution Industry Cell is to reduce the gap between industry expectations (practice) and academic offerings (theory) by direct involvement of industry to attain a symbiosis.

Our Objectives:

- to grow by way of availability of employable manpower group, and increased productivity
- To coordinate the quality of education to meet the current trends and needs of industry.
- To produce employable students i.e., "Industry-Ready students."
- students stand to gain by way of hands-on training, reduction of learning curve in industrial practices
- To create adequate facilities for upgrading knowledge of professional engineers and technologists.
- To incorporate industrial training and other inputs to develop students.
- To share the experience and expertise between institutions and industry for mutual benefits.
- To improve students, faculty, infrastructure, pedagogy in line with the industry's requirements.

FUNCTIONS

- College/Industry Institute Interaction cell continuously encourage students to endure internship during semester vacation to harmonize the quality of education to meet the current scenarios and needs of industry
- To arrange the lectures by experts from industry frequently to make the students familiar with latest industrial practices so that they can ready for industry.
- To organize the industrial visits for students and staff to be trained the latest industrial practices.
- To send the students for Industrial Training Programs to prepare them in the latest technologies.

Sl	Name of Member	Dept.	Designation	Phone No.
01	Dr. RajarshiSanyal	ECE	Chairperson	8918187694
02	Mr. Soumya Chatterjee	ECE	Coordinator	9163118207
03	Mr. Indrajit Pahari	CIVIL	Coordinator	7908771726
04	Mr. Tapas Pattanayak	CIVIL	Coordinator	9800338857
06	Mr. Snehansu Patra	CEO Elitech Industry	Coordinator	8697806857
07	Mr. ShankhaMazumder	Area Manager OTIS	Coordinator	7086096372
08	Dr. Anadalal Gayen	Basic Science	Coordinator	9432817863
09	Dr. Arnab Deb	CIVIL	Coordinator	9436332252
10	Dr. Snehanshu Patra	From Industry	CEO, Elitech Industries Pvt. Ltd	8697806857

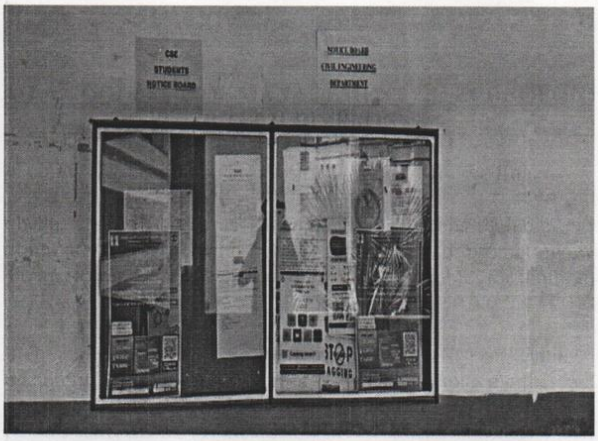
Rajarshi Sanyal
(Dr. RajarshiSanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

General Notice Board and Departmental Notice Boards

Notice Boards have been widely used across educational institutions of India. Notice board, a great tool for communicating messages, leaving friendly reminders and promoting events. From office and colleges notice board to ***community notice boards***, are suitable for both indoor and outdoor settings.

Notice Boards are often spotted at colleges in particular as they assist in keeping students aware and informed of upcoming activities as well as rewarding students by displaying their accomplishments. Our notice board images are given below:

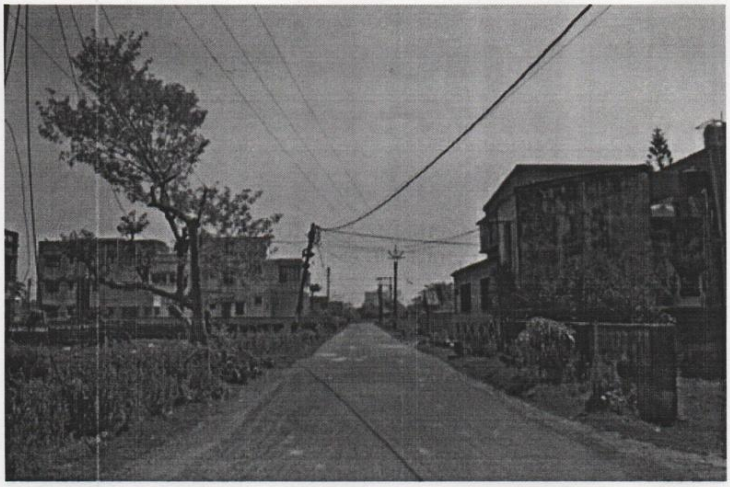


Display board within premises and Web site of the institution
feedback facility of student and faculty

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.Tech Division)

Road suitable for use by Motor vehicle-Motorized Road

Our Institution premises comprise better road condition which complies with all the weather suitability for the motor vehicles. One picture has been illustrated as below:



Ref. No.: PCMT/156/Principal/Committee/2333/2025 Date: 03/12/2025

IMPLEMENTATION OF MANDATORY INTERNSHIP POLICY FOR STUDENTS

Internships are educational and career development opportunities, providing practical experience in a field or discipline. Internships are far more important, as employers are looking for employees who are properly skilled and have awareness about the industry environment, practices, and culture. The internship is structured, short-term, supervised training often focused on particular tasks or projects with defined time scales.

OBJECTIVE:

1. To provide possible opportunities to learn understand and sharpen the real-time technical/managerial skills required at the job.
2. The core objective is to expose technical students to the industrial environment, which cannot be simulated / experienced in the classroom and hence creating competent professionals in the industry and understanding the social, economic, and administrative considerations that influence the working environment of industrial organizations.

INSTITUTIONAL GUIDELINE FOR INTERNSHIP PROJECT :

1. Institute's Certificate
2. Certificate by the Company
3. Formal feedback from the company guide
4. Executive Summary
5. Organization profile
6. Outline of the problem/task undertaken
7. Research methodology & data analysis (in case of research projects only)
8. Relevant activity charts, tables, graphs, diagrams, AV material, etc.
9. Learning of the student through the project
10. Contribution to the host organization
11. References in appropriate referencing styles. (APA, MLA, Harvard, Chicago Style etc.)

Rajarshi Sanyal 3/12/25
Principal
(PCMT)

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(B.TECH DIVISION)VEHICLE PARKING

Parking is an often overlooked – but undoubtedly essential – service for every brick-and-mortar business. With the right parking control systems, it can be a significant revenue generator, too.
There are several advantages of employing a car park system for Pailan College of Management & Technology's, business owners and vehicle drivers for student as well as Faculty members. There are enough space for vehicle parking and efficient usage of space of Pailan College of Management & Technology.
Parking is the first touch point a College has with students. When that interaction is positive, it starts the student, staff and faculty members experience off on a good note.
Two Photographs are attached here with as proof copy.

Ref. No.: PCMT/156/Principal/Committee/2301/2025 Date: 03/12/2025

Establishment of Online Grievance Redressal Mechanism

As per the AICTE Regulations, 2019 (F. No. 1-101/PGRC/AICTE/Regulation/2019 dated 07.11.2019), the Governing Body of **Pailan College of Management and Technology (PCMT)** has constituted a **Student Grievance Redressal Committee (SGRC)** with the objective of addressing and resolving grievances of students and their parents in a fair, transparent, and timely manner.

An online grievance redressal facility has been provided on the College website. Students and parents may register their grievances through the official email ID: **grievance-redressal@pcmt-india.net**

All grievances received will be accessed by the Student Grievance Redressal Committee, which is headed by the Principal. The Committee shall examine the matter carefully, take appropriate action in accordance with applicable rules and regulations, and communicate its decision to the complainant within a reasonable time frame.

The grievances that may be addressed through this mechanism include, but are not limited to, the following:

- Admission made contrary to merit
- Irregularities in the admission process
- Withholding or refusal to return original certificates
- Demand for money in excess of the prescribed fees
- Breach of reservation policy
- Complaints of alleged discrimination on the basis of SC/ST, OBC, Women, Minority, or Persons with Disabilities (PwD)
- Non-payment or delay in payment of scholarships
- Delay in the conduct of examinations or declaration of results
- Withholding of student amenities and facilities
- Denial of quality education
- Non-transparent or unfair evaluation practices
- Harassment and victimization of students, including sexual harassment
- Refund of fees upon withdrawal of admission, as per norms

Pailan College of Management and Technology is committed to maintaining a supportive and grievance-free academic environment and encourages students and parents to utilize this mechanism whenever required.

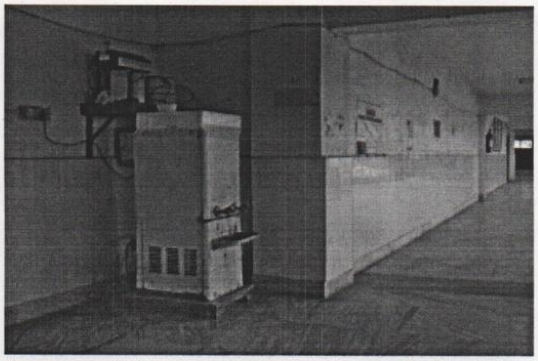
Rajarshi Sanyal 8/12/25
(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Portable Water supply and outlets for drinking water at strategic locations

Water is connected to every form of life on earth and is the basic human need, equally important as air. Water is connected to every aspect of human day to day activities directly or indirectly. Water of satisfactory quality is the fundamental indicator of health and well-being of a society and hence, crucial for the development of a country.
Our college is trying to implement and to ensure safe water to provide for the students with safeguarding their health. This general objective comprises improvements in the following specific areas:
• Water quality, • water accessibility, • water quantity and continuity:

Few implemented photographs are attached herewith:



PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Safety and Security measures in the Campus

Our college campus have essential responsibility to get safety of the students, Staff and faculty members and campus community areas from the threat of violence and we appropriately provide to the students lot of measures and security.

- Our Board of Governors of college has been taken a decision unanimously in the meeting that CCTV will be installed in the campus in appropriate locations within the premises of an institution to ensure the safety of the students and others.

- All students, faculty staff members have been issued identity cards by the institution and the same are checked by the security personnel during their entry. Outsiders are permitted to enter into the Campus with through maintaining registrar by the security guard.

- Institute's staff and faculty members have been trained to protect the students from any abuse and institute organize an annual safety programme for encouraging the students and staff members.

- We have special arrangements for students/staff/faculty members to be taken care in the event of an emergency.

- Besides college constitute different necessary committees i.e. Anti Ragging Committee, Internal Complaint committee, Grievance Redressal Committee for taking care of the students

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION
Sports Facilities

Sport is an essential part of the all-round development at Pailan College of Management & Technology (PCMT). It provides the opportunity for engagement, responsibility, enjoyment and a sense of pride in achievement, regardless of scale or magnitude and a sense of *team spirit*. The love of sport developed at colleg offers life-long benefits, often leading to a happier, healthier and more productive future. PCMT offers a range of individual and team games with opportunities to compete both within and against other Colleges. We give students many opportunities to represent the college

SL.		GAMES & SPORTS FACILITY				
	GAME TYPE	GAMES	ITEMS	AREA	POLICY	CULTURAL ACTIVITIES
1	INDOOR	CHESS	10 BOARDS	as per standard	TO CONTINUE CONDUCTING EVERY YEAR AND TO CONDUCT INTER COLLEGE TOURNAMENTS	splurz, correso
2		CARROM	3BOARDS	as per standard		splurz, correso
3		TABLE TENNIS	5 BOARDS	as per standard		splurz, correso
4		BADMINTON	10 RACKETS	as per standard		splurz, correso

starting youth life, in order to build their love of sports.
The Institution has adequate facilities for sports, games (indoor, outdoor), gymnasium, yoga centre etc. and cultural activities.

1	OUTDOOR	CRICKET		as per standard	TO CONTINUE CONDUCTING EVERY YEAR AND TO CONDUCT INTER COLLEGE TOURNAMENTS	splurz, correso
2		FOOTBALL		as per standard		splurz, correso
3		VOLLEYBALL		as per standard		splurz, correso
4		SWIMMING		as per standard		splurz, correso

No matter what sport students choose to pursue it is important that after hours of sitting and attending classes, students get the chance to stay active, run around and play which, in turn, will actually make them more alert and productive for the body building.

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(B.TECH DIVISION

Sewage Disposal System

This college are in village site, where college buildings are build on plots (stands), arranged along streets, each property is connected by a another building /household sewer pipeline to a larger diameter communal sewer, running along the streets or along non-built-up borders of the community, to a waste-water treatment works located at a lower elevation off to one side, and from there via a main out-fall sewer to a river or an irrigation area.

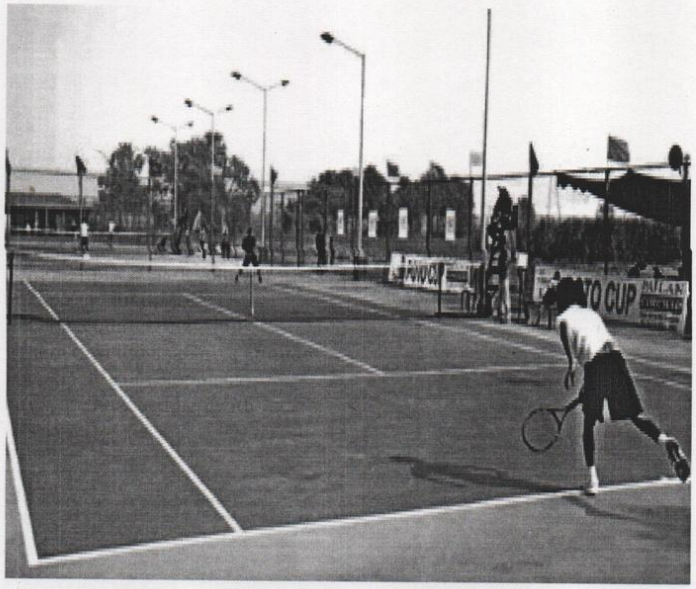
Water use Sewer systems, in order to work properly, need flushing toilets at the source, at the student activities/offices rooms. At the same time, it has a dependable water supply, the water of which, after becoming wastewater, needs a disposal system. The installation of flushing toilets together with bath tubs, showers, hand basins, sinks, laundries, with their water supply from a mains network, and their disposal pipe and sewer network requires a well designed and well managed infrastructure generally known as a plumbing system. Building all the components of a proper sewer system (supply pipes underground, pressure lines with plumbing fittings, as well as drain pipes and are designed, installed, maintained and managed properly.

The details of the design of a sewerage network, as well as water drainage system, are presented in another theme dealing with hydraulic structures. When the toilet is flushed, a certain volume of dilution and carrying water and the waste (sewage) flow by gravity into and along a building sewer pipe set at a certain slope or gradient underground. Bath, laundry, dishwasher water also flows along the same system. The waste water from several living units flows in diluted form, but containing also grease and soap from the individual sewer pipes into an underground sewer main, running alongside the street or outer boundary of the living units. Street sewers gravitate towards and connect with a main out-fall sewer, which joins the wastewater treatment works. The only driving force is the water from the flushing toilets, bathtubs, and sinks, flowing under the influence of gravity and taking the wastewater with it. Used pads should are folded up and placed in a plastic bag for disposal by the students and placed in separate area for burning the same. Reusable devices are washed thoroughly with soapy water, rinsed and dried after use. They are stored so they won't get damaged, Continence products are stored and disposed of following the manufacturer's instructions. These are often to be found on the packaging.

Benefits of Playing Outdoor Games for Children

- It gives them an opportunity to learn new things. ...
- It can help in their physical development. ...
- It can boost their creativity. ...
- It can help them acquire social skills. ...
- It can help them develop a positive attitude. ...
- It helps in personality development.

Few memories are attached herewith:



OFFICE OF THE PRINCIPAL PAILAN COLLEGE OF MANAGEMENT AND TECHNOLOGY, JOKA, KOLKATA 700104

Ref. No.: PCMT/156/Principal/Committee/2329/2025 Date: 03/12/2025

Office Order

As per AICTE order, the following staffs are appointed as Student Counsellor Committee during the Academic year 2025-26. Counselling helps students to manage their emotions better, improve focus on goals and work in a systematic manner for their better future. Group sessions are conducted to build self-esteem, manage wiser from it, etc. Compassionate supportive counselling is extended for students who have mental health issues to help them regain good health and manage their studies effectively.

Sl No.	Name	Designation	Contact Number
1	Poulami Chakraborty	Student Counsellor	9830800310

Rajarshi Sanyal 8/12/25

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Facilitate teachers for undergoing Pedagogical training through NITTT guidelines

As per guidelines of NITTTR, Our College sends /arranges training program for the faculty members for enhancement of their educational knowledge and deliberation techniques for the students. We expect the comprehensive Training program will go a long way in improving the quality of technical education of faculty members.

The Institutional environment, disciplines and motivation of teachers will also boost up, thus improving the quality of teaching -learning process. This training program is being helped the teachers to keep themselves abreast with latest development and co-relate their teaching to the prevailing practice and indigenous as per the needs of present scenario.

Rajarshi Sanyal 31/12/19

(Dr. Rajarshi Sanyal)
Principal,
Pailan College of Management and Technology (B.Tech Division)

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY
(B.TECH DIVISION

Waste Management and environment improvement measure to ensure a sustainable Green Campus

Plastic bags – Students/Staff/faculty members are strictly prohibited to carry any plastic bags for any cause.

Invest in one good water bottle – now a day candidates purchase a reusable bottle to refill throughout the day.

Compost –It is possible for our campus to provide a compost bin for food waste from the cafeteria.

Create a campus garden – we have planted a garden to beautify front space of our remaining building.

Lighting – A better quality of CFL or LED light bulbs are placed in all rooms of our buildings.

Only use what need – So much power goes to waste when we leave lights and devices on when they are not in use. We have notified to all concerned of department to flip the switch when they leave the room & unplug their devices when they are finished charging.

Environmental bookworm –We have more books in library as per AICTE rules and regulations but we also have available e-library systems in which student can get more knowledge for their reference.

Use less paper – It has been notified to all concerned by the Principal/Director that college administrative dept can their administrative /academic activities through on line system.

Monitoring our energy bills – Tracking energy use in buildings involves monitoring, recording, reviewing and analyzing bills and data on a regular basis so that we can identify how energy is used, and reduce costs and consumption.

Reduce printing by reading on-screen
We are trying to read things/matters on our personal devices rather than printing them off.

Adopt Long-Term Campus Sustainability Goals
Establish goals to motivate our College and push towards eco-friendly practices beyond what's planned for Campus Sustainability Month.

Eco friendly environment in the college campus

PAILAN GROUP OF INSTITUTIONS
1st KG to PG campus in Eastern India
Celebrating 22 glorious years of excellence

PAILAN EDUCATIONAL TRUST

PAILAN EDUCATIONAL TRUST

PCMT/156/Principal/WHL/2534/2025 Date : 03/12/2025

As per the AICTE APH 2026-27 guidelines regarding 24X7 Woman helpline number and security system in the campus in order to provide the safety to students and female faculty and non teaching staffs, Pailan College of Management and Technology has introduced a **24X7 Woman Helpline Number 9830800310 and the Contact person is Ms Poulami Chakraborty**.

The helpline number is to be approached by Female Faculty, Female non teaching staff and Female students of the college.

8/12/25

Campus : Bengal Pailan Park, Amgachia Road (off. Diamond Harbour Road), Kolkata - 700 104
Phone : TCMT : (033) 2453 3303, **PCMT :** (033) 2453 5606, **PWS :** (033) 2497 8605/8556,
PCE : (033) 2497 8744.

PAILAN GROUP OF INSTITUTIONS

PAILAN EDUCATIONAL TRUST

PAILAN EDUCATIONAL TRUST PET

BOARD RESOLUTION OF PAILAN EDUCATIONAL TRUST

Date & Time - 25th September 2025 at 12 pm

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF TRUSTEES OF Pailan College of Management and Technology (PCMT) a unit of Pailan Educational Trust PET) held at its office at Bengal Pailan Park, Sector-1, Phase-1, Amgachia Road ,Joka , Kolkata-700104 , West Bengal

In Attendance :

1> Ms Baby Saha (Managing Trustee)
2> Ms Moon Moon Saha
3> Mr Kunal Chakraborty

Resolved that:

1. The trust hereby approves the closure of the following undergraduate engineering programs:
   - Electronics and Communication Engineering (ECE)
   - Electronics and Electrical Engineering (EEE)
2. The trust hereby approves the introduction of a new undergraduate engineering program:
   - Computer Science and Engineering (Artificial Intelligence and Machine Learning)
3. The Managing Trustee is authorized to take necessary steps to implement this decision, including but not limited to:
   - Notifying the relevant authorities (e.g., AICTE, University)
   - Updating course curricula and infrastructure
   - Informing students and faculty

Passed unanimously

For Pailan Educational Trust

Campus : Bengal Pailan Park, Amgachia Road (off. Diamond Harbour Road), Kolkata - 700 104
Phone : TCMT : (033) 2453 3303, **PCMT :** (033) 2453 5606, **PWS :** (033) 2497 8605/8556,
PCE : (033) 2497 8744.

- **Nature and Extent of involvement of Faculty and students inacademic affairs/improvements**

Following are the key responsibility areas of faculty members:-

1. To take classes of at least two subjects based on domain expertise of the faculty members.
2. Common academic responsibilities shall inter-alia include **a)** Question paper setting; **b)** preparation of lecture plan to be submitted to HOD / Director for approval and for its implementation; **c)** Evaluation of examination answer scripts and to forward marks under sealed cover; **d)** Reviewing subject wise lecture plan for completion of syllabus within academic session; **e)** Ensuringthat allotted classes are taken as per class routine so that no classremains unattended; **f)** Attending classes well in time and in the event of absence on any college working days, Departmental HOD /Coordinator to ensure thatthe classes are taken by an alternative facultymember.
3. To publish at least one research paper either independently or jointly with other facultyineachacademicyearinareputednationalorinternationaljournal.
4. To assist in bringing consultancyproject.
5. Additional academic activities shall inter-alia include; **(i)** guiding UG students for appearing in interview; **(ii)** To assist in organizing classes for soft skill development of the students; **(iii)** To organize frequent presentation/ quiz etc. of the UG students for improving their presentation skill; **(iv)**Project guidance to UGstudents.
6. Non academic responsibilities shall include **(i)**Invigilation duty for examination; **(ii)** To assists in cultural and sports activities; **(iii)** To assist in ISO certificationanNAAC/NBAAccreditationandotherqualityassurancemeasuresandeff orts.
7. Toactasamentorofagroupofstudentsforholisticimprovementsofstudents.
8. Take appropriate corrective measures depending on students feedback forwarded throughHOD.
9. To develop and implement curriculum beyond syllabus to prepare students aspercurrentindustrynormsandtherebyensuringbetterplacementperformance.
10. To take part in anti–ragging measures of college. Exercise self-discipline and maintain intellectual honesty and ethical principles for holistic development of thecollege.

Key Responsibility Area of Students.

1. Toattendclassesasperroutineandmaintainacademicdiscipline.
2. To attain 75% of attendance in an academic semester session in order to became eligible to appear in the semester universityexaminations.
3. To submit and prepare all the assignment/project/report/ presentation given by respective faculty member to enhance their academicacumen.
4. To attend all lab / personality development/soft skill classes to sharpen theirskill to crack placementopportunities.
5. To actively get involve in placement activities via student's trainingand placementcell.
6. To participate in seminar/ workshop/ training/ curriculum beyond syllabus classes as will be arranged forthem.
7. To organize and participate in non-academic activities such as sports/cultural events/ corporate social responsibilityprograms.
8. To maintain overall environment and cleanliness of the campus and surrounding areas.
9. To support and contribute in all the quality improvement methods implemented by authority time totime.
10. Tomaintainacompletelyraggingfreecampusanddisciplinedenvironment.
11. AllthestudentsneedtoadheretoCodeofConductframedbytheInstitute.
12. Allthestudentsneedtowear theuniformasprescribedbythecollege.

- **Mechanism/ Norms and Procedure for democratic/ goodGovernance**

Mechanisms / Norms vis-a-vis procedure for good governance of the Institute are as indicated below:-

1. Besides the Key Responsibilities Areas of the faculty members, following Committees are constituted for recommending on policy matters and working methodology for holistic development of thecollege:-
    - Academic Council / Committee with its goal, role and responsibilities and the Committee shall meet at least two times in an academicyear;
    - Departmental Committee with its goal, role and responsibilities and Departmental Committee shall meet at least twice in a semester session;
    - Examination Committee with its goal, role and responsibilities and Examination Committee shall at least meet twice in a semester session;
    - Library Committee with its goal, role and responsibilities and Library Committee shall meet at least twice per semestersession;
    - Admission Committee with its goal, role and responsibilities and Admission Committee shall meet in advance before commencement of new academicsession;
    - Student Welfare Committee with its goal, role and responsibilities and Student Welfare Committee shall meet at least once during the Semestersession;

Convener of the above mentioned committee shall draw the proceedings of the committee and shall submit the proceedings to the Vice Chairperson of the Institute for management's advice.

Apart from above mentioned Committees, following committees have also been constituted as per the AICTE guidelines (i.e. As per AICTE Approval Process HandBook):-

- Internal Complaint Committee;
- Grievance Redressal Committee;
- Committee for SC and ST;
- Anti-Ragging Committee;

- **Student Feedback on Institutional Governance/ Facultyperformance**

  Feedback from the students is regularly collected in prescribed format which is reproduced below. Feedback is analyzed & corrective measures are taken as deemed necessary:-

Unit:.....

Feedback form for the evaluation of teachers by students

Name of Teacher: .....

Name of Department: ..... Class:.....

Semester.....Academic Session:..... ...

Subject taught & Paper code:.....

(A) Below Average:1 ; (B) Average: 2 ; (C) Good: 3 (D) Very Good: 4 ; (E) Outstanding:5

		i	ii	iii	iv	V	vi	vii	viii	ix	x		
Sl	**Student Roll No./ Registration No**	**Regularity in taking Classes by teacher**	**Lucidity in delivering lectures on the subject**	**Focus on Syllabus**	**Communication skills**	**Inviting option and questions on subject matter from students**	**Availability of the teacher outside class hours**	**Regular conductance of class tests/snap tests**	**Helping approach towards varied academic interests of students**	**Control mechanism in effectively conducting the class**	**Motivating and inspiring the students to learn**	**Total for Each Column Total out of 50**	**Rating of the teacher based on students' feedback (Avg. Grade of students rating)**
		Max:(5)	Max: (5)	Max: (5)	Max: (5)	Max: (5)	Max(5)	Max: (5)	Max: (5)	Max: (5)	Max: (5)	Total : (50)	
01													
02													
04													
05													
06													
07													

- **Grievance Redressal mechanism for Faculty, staff andstudents**
  The Grievance redressal mechanism is given below:-

Sl	Category	1st Tier	2nd Tier	3rd Tier	4th Tier
1	Faculty	Coordinator	HOD	Principal	Chairman
2	Staff	Sectional Officer	Registrar	Grievance Redressel Committee	Chairman
3	Student	Batch Coordinator	HOD	Principal/Grievance Redressal Committee	Vice Chairperson

- **Establishment of Anti RaggingCommittee**

PAILAN GROUP OF INSTITUTIONS

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

PAILAN College of Management & Technology

Ref. No: PCMT/156/Principal/ARC/2302/2024 **Date:** 03/08/2023

NOTICE

On Anti-Ragging Committee of PCMT (B.Tech Division)

Anti-Ragging Committee is being reconstituted as below as per All India Council for Technical Education (AICTE) Notification F.No. 37-3/Legal/AICTE/2009 dated 01.07.2009 and also as per UGC Regulation F.1—16/2007(CPP-11) dated 17.05.2009, for prevention and prohibition of ragging in the campus of Pailan College of Management & Technology (including its hostel premises).

The members of the committee are as follows:

Sl. No.	Name	Designation	Role	Mobile No.
1	Dr. Kousik Roy	Principal (B.Tech division)	Chairperson	9733399246
2	Dr. Shantanu Dasgupta	Principal (Non-AICTE)	Chairperson	9432305402
3	Mr. Kunal Chakroborty	Registrar	Chairperson	9830087891
4	Moon Moon Saha	Representative of Management	Member	9874866131
5	Mr. Soumya Chatterjee	Assistant Professor	Member & Convener	9874710989
6	Ms. Mayumi Mukherjee	Assistant Professor	Member	7003817233
7	Dr. Partha Mitra	Associate Professor	Member	8967941667
8	Mrs. Basanti Bhattacharya	Assistant Professor	Member	8777309738
9	Mr. Tanajit Manna	Assistant Professor	Member	9831721959
10	Mr. Tapas Pattanayek	Assistant Professor	Member	9800338857
11	Mr. Bidrohi Bhattacharjee	Assistant Professor	Member	9433366587
12	Dr. Animesh Das	Assistant Professor	Member	9126510359
13	Mr. Pinaki Ranjan Ghosh	Assistant Professor	Member	7980848193

Prof. (Dr.) Kousik Roy
M.Tech., Ph.D. (Engineering)
Principal
Pailan College of Management & Technology
Joka, Kolkata - 700104, South 24 Parganas

Campus : Campus : Bengal Pailan Park, Plot B,187-206, Phase III, Joka, Kolkata – 700104. Tel : (033) 2453 560
Fax : (033) 2497 8238, Email : frontoffice@pcmt-india.net, Website : www.pcmt-india.net

DNV ISO 9001:2008 CERTIFIED INSTITUTE

- **Establishment of Online Grievance RedressalMechanism**

  Online Grievance Redressal mechanism has been established in the Institute as per ACITE norms at website link:http://pcmt-india.net/feedback_grievance.

- **Establishment of Grievance Redressal Committee in the Institution andAppointment of OMBUDSMAN by the University**

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

Ref. No: PCMT/156/Principal/SGRC/2303/2024 Date: 02/09/2023

NOTICE

Sub: Constitutions of student Grievance Redressal Committee

Student Grievance Redressal Committee for B.Tech Division, is being constituted as per AICTE (Redressal of Grievance of students) regulation, 2019, for establishment of grievance redressal mechanism, comprising of following personnel for Pailan College of Management & Technology with an objective to provide opportunities of certain grievances of students already enrolled in this institution.

The members of the committee are as follows:

Sl.	Name	Designation	Role	Mobile No.
1	Dr. Kousik Roy	Principal (B. Tech division)	Chairperson	9733399246
2	Dr. Partha Mitra	Associate Professor	Member & Convener	8967941667
3	Mr.Samik Banerjee	Assistant Professor	Member	7001930949
4	Ms. Leena Lahiri	Representative of CINI	Member	9830786361
5	Mr. Tapas Pattanayak	Assistant Professor	Member	9800338857
6	Mr.Bidrohi Bhattacharya	Assistant Professor	Member	9433366587
7	Ms. Mayumi Mukherjee	Assistant Professor	Member	7003817233
8	Srijan Dhara	Student	Member	8334839083
9	Rahul Mondal	Student	Member	9475227346

Members are requested to implement the above working process immediately as previous years and meet amongst themselves to decide their course of action.

Dr. Kousik Roy

Prof. (Dr.) Kousik Roy
M.Tech, Ph.D (Engineering)
Principal
Pailan College of Management & Technology
Joka, Kolkata, South 24 Parganas
West Bengal - 700104

(Dr. Kousik Roy)
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

Establishment of Internal Compliant Committee(ICC)

PAILAN GROUP OF INSTITUTIONS

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

PAILAN College of Management & Technology

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

Ref. No: PCMT/156/Principal/Committee/2304/2024 Date: 02/09/2023

NOTICE

Sub: Reconstruction of Internal Complaint Committee as per AICTE notification

As per Section 4 of All India Council for Technical Education (Gender Sensitization, Prevention & Prohibition of Sexual Harassment of Women Employees and Students and Rederssal of Grievance in Technical Institution) Regulations, 2016 (AICTE Notification F. No. AICTE/WH/2016/01 dated10.06.2016), Internal Complaint Committee for Pailan College of Management &Technology (B.Tech Division) is constituted with an objective of resolving complaint pertaining to gender sensitization and sexual harassment of girl students, their parents and lady employees of the college. The committee consists of the following members:

SL. NO.	Name	Designation	Role	Mobile No.
1	Dr. Kousik Roy	Principal (B. Tech division)	Chairperson	9733399246
2	Mr. Kunal Chakroborty	Registrar	Member	9830087891
3	Mrs. Sayantani Patra	Admin Executive	Member	6292244978
4	Ms. Debapriya Banerjee	Assistant Professor	Member	9674702942
5	Ms. Mayumi Mukherjee	Assistant Professor	Member	7003817233
6	Dr. Partha Mitra	Associate Professor	Member	8967941667
7	Sk Nurul Islam	Assistant Professor	Member	7003271051
8	Mr. Surjashish Ghosh	Student	Member	8101291174
9	Mr. Rahul Mondal	Student	Member	9475227346

Members are requested to implement the above working process immediately and decide their course of action.

Dr. Kousik Roy

Prof. (Dr.) Kousik Roy
M.Tech. Ph.D (Engineering)
Principal
Pailan College of Management & Technology
Joka, Kolkata, South 24 Parganas
West Bengal - 700104

(Dr. Kousik Roy)
Principal,
Pailan College of Management and Technology (B.Tech Division)
To: Notice Boards of PCMT & B.Tech Building: Boys & Girls Hostel:
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members.

- **Establishment of Committee for SC/ST**

PAILAN GROUP OF INSTITUTIONS

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

PAILAN College of Management & Technology

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

Ref. No.: PCMT/156/Principal/SC&ST/2305/2024 **Date:** 02/09/2023

NOTICE

Sub: Reconstitution of SC/ST committee as per AICTE notification

SC/ST Committee of the Institute, Pailan College of Management and Technology, for B.Tech Division is being reconstituted as per the Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act. 1989, No. 33 of 1989 dated 11.06.1989, to prevent commission of offences of atrocities against the members of the Scheduled castes and the Scheduled Tribes, the Committee comprises of the following members:

Sl No	Name	Designation	Role	Mobile No
1.	Dr. Kousik Roy	Principal (B. Tech division)	Chairperson	9064448673
2.	Ms. Prama Naskar	Assistant Professor	Member & Convener	8240446284
3.	Mr. Shyamal Sardar	Hotel Warden	Member	9836648995
4.	Ms. Marjina Molla	Office Assistant	Member	9830828766

Members are requested to start working process immediately and meet amongst themselves at least once in three months and decide their course of action. Minutes of the meeting is to be maintained by Convener and submitted to the undersigned.

Dr. Kou M. Roy

Prof. (Dr.) Kousik Roy
M.Tech., Ph.D (Engineering)
Principal
Pailan College of Management & Technology
Joka, Kolkata, South 24 Parganas
West Bengal - 700104

(Dr. Kousik Roy)
Principal,
Pailan College of Management and Technology (B.Tech Division)

To: Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

- **Internal Quality AssuranceCell**

PAILAN GROUP OF INSTITUTIONS

PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY

PAILAN College of Management & Technology

(A Division of Pailan Educational Trust)

Approved by AICTE, Ministry of H.R.D. Govt. of India & affiliated to MAKAUT Govt. of West Bengal

To: Notice Boards of PCMT & B.Tech Building; Boys & Girls Hostel;
CC: Joint Chairperson, Vice Chairperson, Registrar & above Committee Members

Ref. No: PCMT/156/Principal/IQAC/2221/2023 Date: 02/09/2023

NOTICE

On IQAC Committee of PCMT (B.Tech Division)

Internal Quality Assurance Cell (IQAC) for Pailan College of Management & Technology for B.Tech Division is reconstituted with objective to develop a mechanism to promote conscious, consistent and catalytic action plans to improve the academic and administrative performance of the Institute. The Committee comprises of the following members:

The members of the committee are as follows:

1. Dr. Kousik Roy, Principal – Chairperson
2. Mr. Soumya Chatterjee, Assistant Professor, CSE - Co-coordinator of IQAC
3. Mr. Kunal Chakraborty – Registrar, PGI, Representative of Management
4. Dr. Santanu Dasgupta-Principal , PCMT(Non AICTE)- Member
5. Ms Mayumi Mukherjee- Assistant Professor, ECE- Member
6. Mr. Tapas Pattnayek – Assistant Professor, CE – Member
7. Mr. Bidrohi Bhattacharjee – Assistant Professor, EEE - Member
8. Mr. Pinaki Ranjan Ghosh – Asst. Professor, General Sc. & HU – Member
9. Ms. Mousumi Bhattacharya – Assistant Controller of Examination – Member
10. Mr. Nabin Chandra Pramanik – Accountant, PCMT
11. Mr. Shouryadip Das – Student, EEE 4th Sem (Nominee from students)
12. Ms. Soma Chakraborty – Nominee from Parent/Stakeholder
13. Ms. Priya Mitra – EX Student B.Tech CSE (Nominee from Alumni)
14. Mr. Nilanjan Kar – Civil Engineer, Garden Reach Ship Builder, Nominee from Industry.

Members are requested to start working immediately and meet amongst themselves at least once in a month and decide their course of action. Minutes of the meeting conducted by them are to be maintained by Co-coordinators and submitted to the undersigned and soft copy should be sent to the Vice Chairperson, PGI, immediately after every meeting.

Prof. (Dr.) Kousik Roy
M... Ph.D (Engineering)
Principal
Pailan ... Management & Technology
Joka, ... Kata, South 24 Parganas
... Bengal - 700104

ISO 9001:2008 CERTIFIED INSTITUTE

6. Programmes

- **Name of Programmes approved by AICTE :** ENGINEERING &TECHNOLOGY
- **Name of Programmes Accredited by NBA:**NIL
- **Status of Accreditation of the Courses:**N.A.

Our Institute offers 4 (four) Undergraduate courses under the programme "ENGINEERINGANDTECHNOLOGY"asperAICTEnomenclatureanddetailsaregiven below:

<table>
<tr><td>Name of the Course</td><td>COMPUTER SCIENCE AND ENGINEERING</td></tr>
<tr><td>Number of seats</td><td>60</td></tr>
<tr><td>Duration</td><td>4 Years</td></tr>
<tr><td>Cut off marks/rank of admission during the last three years</td><td>As per State Statutory Body (WBJEEboard)
(based on WBJEE rank& JEE (Main) Rank)
<table>
<tr><th>Rank of admission 2025-2026</th><th>Rank of admission 2024-2025</th><th>Rank of admission 2023-2024</th></tr>
<tr><td></td><td></td><td>26455-827272</td></tr>
</table></td></tr>
<tr><td>Fee</td><td>Rs. 450000/-</td></tr>
<tr><td>Placement Facilities</td><td>A seminar hall with a capacity of 250 students.
Spacious auditorium with hi-tech audio-video facilities to accommodate 400 students.
Examination halls to conduct written/Aptitude test.
Conducting on-campus &off-campus placement drives in reputed organizations.
Full-fledged laboratories to organize online examinations</td></tr>
<tr><td>Campus placement in last three years with minimum salary, maximum salary and average salary</td><td>
<table>
<tr><th>Placement</th><th>CAY 2022-23</th><th>CAY 2021-22</th><th>CAY 2020-21</th></tr>
<tr><td>No. of Students Placed</td><td>4</td><td>7</td><td>25</td></tr>
<tr><td>Minimum Salary (Lakh)</td><td>2.4</td><td>0.85</td><td>1.20</td></tr>
<tr><td>Maximum Salary (Lakh)</td><td>6</td><td>4.50</td><td>5.00</td></tr>
<tr><td>Average Salary (Lakh)</td><td>4.2</td><td>3.52</td><td>3.38</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>Name of the Course</td><td>ELECTRICAL AND ELECTRONICS ENGINEERING</td></tr>
<tr><td>Number of seats</td><td>30</td></tr>
<tr><td>Duration</td><td>4 Years</td></tr>
<tr><td>Cut off marks/rank of admission during the last three years</td><td>As per State Statutory Body (WBJEEboard)
(based on WBJEE rank & JEE (Main) Rank)
<table><tr><th>Rank of admission 2023-2024</th><th>Rank of admission 2022-2023</th><th>Rank of admission 2021-2022</th></tr><tr><td>69271</td><td>---</td><td>-----</td></tr></table></td></tr>
<tr><td>Fee</td><td>Rs. 345000/-</td></tr>
<tr><td>Placement Facilities</td><td>A seminar hall with a capacity of 250 students.
Spacious auditorium with hi-tech audio-
video facilities to accommodate 400 students.
Examination halls to conduct written/Aptitude test.
Conducting on-campus &off-campus placement drives
in reputed organizations.
Full-fledged laboratories to organize online examinations</td></tr>
<tr><td>Campus placement in last three years with minimum salary, maximum salary and average salary</td><td><table><tr><th>Placement</th><th>CAY 2022-23</th><th>CAY 2021-22</th><th>CAY 2020-21</th></tr><tr><td>Students Placed</td><td>2</td><td>2</td><td>7</td></tr><tr><td>Minimum Salary (Lakh)</td><td>2.4</td><td>0.84</td><td>1.10</td></tr><tr><td>Maximum Salary (Lakh)</td><td>2.4</td><td>4.20</td><td>4.75</td></tr><tr><td>Average Salary (Lakh)</td><td>2.4</td><td>3.50</td><td>3.35</td></tr></table></td></tr>
</table>

<table>
<tr><td>Name of the Course</td><td>ELECTRONICS AND COMMUNICATIONS ENGINEERING</td></tr>
<tr><td>Number of seats</td><td>30</td></tr>
<tr><td>Duration</td><td>4 Years</td></tr>
<tr><td>Cut off marks/rank of admission during the last three years</td><td>As per State Statutory Body (WBJEEboard)
(based on WBJEE rank & JEE (Main) Rank)
<table><tr><th>Rank of admission 2023-24</th><th>Rank of admission 2022-23</th><th>Rank of admission 2021-2022</th></tr><tr><td>--</td><td>78515</td><td>----</td></tr></table></td></tr>
<tr><td>Fee</td><td>Rs. 350000/-</td></tr>
<tr><td>Placement Facilities</td><td>A seminar hall with a capacity of 250 students.
Spacious auditorium with hi-tech audio-video facilities to accommodate 400 students.
Examination halls to conduct written/Aptitude test.
Conducting on-campus &off-campus placement drives in reputed organizations.
Full-fledged laboratories to organize online examinations</td></tr>
<tr><td>Campus placement in last three years with minimum salary, maximum salary and average salary</td><td><table><tr><th>Placement</th><th>CAY 2022-23</th><th>CAY 2021-22</th><th>CAY 2020-21</th></tr><tr><td>Students Placed</td><td>1</td><td>4</td><td>3</td></tr><tr><td>Minimum Salary (Lakh)</td><td>3.1</td><td>0.80</td><td>1.15</td></tr><tr><td>Maximum Salary (Lakh)</td><td>6</td><td>4.40</td><td>4.85</td></tr><tr><td>Average Salary (Lakh)</td><td>4.55</td><td>3.40</td><td>3.50</td></tr></table></td></tr>
</table>

<table>
<tr><td>Name of the Course</td><td>CIVIL ENGINEERING</td></tr>
<tr><td>Number of seats</td><td>30</td></tr>
<tr><td>Duration</td><td>4 Years</td></tr>
<tr><td>Cut off marks/rank of admission during the last three years</td><td>As per State Statutory Body (WBJEEboard)
(based on WBJEE rank & JEE (Main) Rank)
<table><tr><th>Rank of admission 2023-24</th><th>Rank of admission 2022-23</th><th>Rank of admission 2021-22</th></tr><tr><td>--------</td><td>54116</td><td>58089</td></tr></table></td></tr>
<tr><td>Fee</td><td>Rs. 350000/-</td></tr>
<tr><td>Placement Facilities</td><td>A seminar hall with a capacity of 250 students.
Spacious auditorium with hi-tech audio-
video facilities to accommodate 400 students.
Examination halls to conduct written/Aptitude test.
Conducting on-campus &off-campus placement drives
in reputed organizations.
Full-fledged laboratories to organize online examinations</td></tr>
<tr><td>Campus placement in last three years with minimum salary, maximum salary and average salary</td><td><table><tr><th>Placement</th><th>CAY 2022-23</th><th>CAY 2021-22</th><th>CAY 2020-21</th></tr><tr><td>Students Placed</td><td>1</td><td>0</td><td>1</td></tr><tr><td>Minimum Salary (Lakh)</td><td>3.1</td><td>NA</td><td>2.25</td></tr><tr><td>Maximum Salary (Lakh)</td><td>3.1</td><td>NA</td><td>2.25</td></tr><tr><td>Average Salary (Lakh)</td><td>3.1</td><td>NA</td><td>2.25</td></tr></table></td></tr>
</table>

- **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. If there is foreign collaboration, give the following detail: NIL**

7. Faculty

Branch wise list Faculty members:

- PermanentFaculty

FACULTY LIST : B.TECH DIVISION

PRINCIPAL: DR. Rajarshi Sanyal

CSE Department

Dr. Partha Mitra
Dr. Susmit Bagchi
Anirban Roy
Priyanka Ghosh
Pinaki Ranjan Ghosh
Bonod Hazra
Singini Bhattacharya
Tousi Adak

EEE Department

Tithi Das
Rudra Sen
Madhurima Das
Arnab Sau
Debapriya Banerjee
Prianka Bera

ECE Department

Kunal Chakraborty
Anindita Banerjee
Tanajit Manna
Soumya Chatterjee
Priya Bhattacharyya
Sahabuddin Dekh
Sanjib Dey

CE Department

Tapas Pattanayek
Sourav mitra
Prama Naskar
Indrajit Pahari
Souvik Sen
Anandalal Gayen
Dr. Arnab Dev
Suhasini Haldar

Permanent Faculty: Student Ratio: 1:20

Number of Faculty employed during the last three years:20

Number of Faculty left during the last three years: 15

8. Profile of Vice Chancellor/ Director/ Principal/ Faculty For each Faculty givea page covering with Passport sizephotograph

Principal

i. **Name:**Dr.Rajarshi Sanyal

ii. **Date ofBirth**: 17-11-1972

iii. **Unique id**:

iv. **EducationQualifications**:B.E(ECE), M.Tech(ECE), PhD(Engineering)

v. **WorkExperience**:

- Teaching:11 years
- Research: 8 years
- Industry:
- Others (Administration):Two years and Eleven months

vi. **Area of Specialization**:Electronics and Communication Engineering

vii. Courses taught at Under GraduateLevel: Anjalog and Digital Electronics, Analog and Digital Communication, E.M Theory,Microwave

viii. **Researchguidanc**e:

- No. of papers published in International Journals:32
- Master: 3
- Ph.D.:2 (ongoing)

ix. **Projects carried out**:Project ID: R.4/2/UG/2018-19/ RDUG2018002 .The project has been funded by the Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020 under R&D Grant –in – Aid Scheme. The project report entitled Fading of LF & HF signal and associated dynamics of the atmosphere was submitted by ARUP KUMAR CHANDRA (IEI MEMBERSHIP NO. SM000486-0) work done by him under my supervision and guidance.

x. **Patents:**

xi. **Technology Transfer**:

xii. **Research Publications: Journal Publications: 41**
International conference:16, National conference: 22

xiii. **No. of Books published with details:Book chapter -6**

COMPUTER SCIENCE AND ENGINEERING

Faculty Members

i. **Name**: Mr. Arnab Sau

ii. **Uniqueid:**1-43919937894

iii. **Education Qualifications**: M.A.(English), B.Ed., M.Ed., NET, SET

iv. WorkExperience:

- Teaching: 2 Years
- Research: NA
- Industry:NA
- Others:NA

v. **Area of Specialization: English Language Teaching**

vi. **CoursestaughtatUnderGraduateLevel:**Language, Literature, Educational Studies

vii. **Research guidance:**NIL

- No. of papers published in National/ InternationalJournals/ Conferences: 1
- Master:NIL
- Ph.D.:NIL

viii. **Projects Carried out:** NA

ix.**Patents:**NIL

x. **Technology Transfer:** NIL

xi. **Research Publications:**1

xii. **No.ofBookspublishedwithdetails**:NA

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i. **Name:** Shinjini Bhattacharya

ii. **Unique id:1-43920978943**

iii. **Education Qualifications: B.Sc.(Physics),** M.Sc.(Bio Physics),

B.Ed, M.Ed, GATE, NET

iv.**WorkExperience**:

- Teaching: 2 Years
- Research:NIL
- Industry:NIL
- Others:NIL

v. **Area of Specialization:** Physics, Bio Physics

vi. **CoursestaughtatUnderGraduateLevel**:Classical Mechanics, Quantum Physics, Electronics, Optics, Programming

vii. **Researchguidance**:

- No. of papers published in National/ International Journals/ Conferences: NA
- Master :NIL
- Ph.D.:NIL

viii. **Projects carried out:**NIL

ix.**Patents:**NIL

x. **Technology Transfer:** NIL

xi. **Research Publications:**02

xii. **No. of Books published with details:02**

(Exploring Inclusive Education at Secondary and Higher secondary school settings in India and Japan: A comparative analysis)
ISBN: 978-1-68576-441-8

(A study on Inclusive Education at Secondary and Higher Secondary level in Asia)
ISBN: 978-93-92446-37-5

i. **Name: Kunal Chakraborty**

ii. **Unique id**:1-9320661211

iii. **Education Qualifications**: Master Degree in Sociology

iv. WorkExperience:

- Teaching:22
- Research :NIL
- Industry :05
- Others:NIL

v. **Area of Specialization**: Social Science

vi. **Courses taught at Under Graduate Level**: Principal of Management, Values & Ethics etc

vii. Researchguidance:

- No.ofpaperspublishedinNational/InternationalJournals/Conferences : NIL
- Master :NIL
- Ph.D.:NIL

viii. **Projects carriedout:** NIL

ix.**Patents:**NIL

x. **Technology Transfer:** NIL

xi. **Research Publications:**NIL

xii. **No. of Books published with details:**NIL

i. **Name: Dr. Sourav Deb**

ii. **Unique id:**

iii. **Education Qualifications: PhD in Chemistry**

iv. **WorkExperience:**

a. **Teaching: 1.5 years**
b. **Research:6 years**
c. **Industry:NIL**
d. **Others:NIL**

v. **Area of Specialization: Inorganic Chemistry, Co-ordination Chemistry, Molecular Sensor, Photo Chemistry, Spectroscopy, DFT, Boolean Logic, Fuzzy Logic**

vi. **Courses taught at Under Graduate Level: Inorganic Chemistry, Physical Chemistry**

vii. **Research guidance:**

a. **No.ofpaperspublishedinNational/InternationalJournals/Conferences: NIL**
b. **Master: NIL**
c. **Ph.D.: NIL**

viii. **Projects carried out: NIL**

ix. **Patents: NIL**

x. **Technology Transfer: NIL**

xi. **Research Publications:14**

xii. **No. of Books published with details: NIL**

i. **Name: TOUSI ADAK**

ii. **Unique id: 1-45121865772**

iii. **Education Qualifications: M.TECH(CSE)**

iv. **WorkExperience:**

a. Teaching: 04 Yrs
b. Research:NA
c. Industry:NA
d. Others:NA

v. **Area of Specialization: Machine learning**

vi. **Courses taught at Under Graduate Level: B.TECH**

vii. **Research guidance:**

a. No.ofpaperspublishedinNational/InternationalJournals/Conferences: NA
b. Master :NA
c. Ph.D.:NA

viii. **Projects carried out**: NA

ix. **Patents:NA**

x. **Technology Transfer: NA**

xi. **Research Publications:01**

xii. **No. of Books published with details:NA**

i. **Name: SWAGATA SINHA**

ii. **Unique id: 1-11123726371**

iii. **Education Qualifications: M.TECH**

iv. **WorkExperience:**

a. Teaching: 8 MONTH
b. Research:NA
c. Industry:NA
d. Others:NA

v. **Area of Specialization: MACHINE LEARNING**

vi. **Courses taught at Under Graduate Level: B.TECH**

vii. **Research guidance:**

a. No.ofpaperspublishedinNational/InternationalJournals/Conferences: NA
b. Master :NA
c. Ph.D.:NA

viii. **Projects carried out**: NA

ix. **Patents:NA**

x. **Technology Transfer: NA**

xi. **Research Publications:NA**

xii. **No. of Books published with details:NA**

i. **Name: ANIMESH DAS**

ii. **Unique id: 1-43564969910**

iii. **Education Qualifications: M.TECH, Ph.D**

iv. **WorkExperience:**

- Teaching: 6Yrs
- Research:NA
- Industry:2 YRS
- Others:NA

v. **Area of Specialization: AUTOMOTIVE ENGINEERING**

vi. **Courses taught at Under Graduate Level: B.TECH**

vii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences: 6 nos.
- Master :NA
- Ph.D.:NA

viii. **Projects carried out**: NA

ix. **Patents:02**

x. **Technology Transfer: NA**

xi. **Research Publications:6 nos.**

xii. **No. of Books published with details:1 (Simplified Autocad, Notion Press, ISBN-9781638861539)**

i. **Name:** *Debapriya Banerjee*

ii. **Unique id: 1-11123762371**

iii. **Education Qualifications:** *M.A., B.Ed (English)*

iv. **WorkExperience: 02 years**

a. Teaching: 02
b. Research: NA
c. Industry:NA
d. Others:NA

v. **Area of Specialization:** *English*

vi. **Courses taught at Under Graduate Level: Soft kill & personality development, Communicative English.**

vii. **Research guidance: NA**

a. No.ofpaperspublishedinNational/InternationalJournals/Conferences:
b. Master :
c. Ph.D.:

viii. **Projects carried out**: NA

ix. **Patents:NA**

x. **Technology Transfer: NA**

xi. **Research Publications:NA**

xii. **No. of Books published with details:NA**

i. **Name:** TanajitManna

ii. **Unique id:**1-3619178941

iii. **Education Qualifications:** M. Tech (ECE)

iv.**Work Experience:**

- Teaching: 9.8years
- Research:NIL
- Industry:NIL
- Others: NIL

v. **Area of Specialization:** Communication Engineering(Telecommunication)

vi. Courses **taught at Under Graduate Level**: Digital Communication, Telecommunication System, Satellite Communication, Wireless Communication & N/Wetc.

vii. **Research guidance:**NIL

- No. of papers published in National/ International Journals/ Conferences: 6
- Master:NIL
- Ph.D.:NIL

viii. **Projects carried out:**NIL

ix.**Patents:**01

x. **Technology Transfer:**NIL

xi. **Research Publications:**12

xii. **No. of Books published withdetails**:1

A. Dey, A. Paul, T. Manna, Microstrip Low Pass Filter system Parameters By Insertion Loss Method: MATLAB Design & Analysis, LAP LAMBERT Academic Publishing, 17-02-2014 [ISBN-13:978-3-659-438417]

i **Name:** Soumya Chatterjee

i. **Unique id**:1-9481320615

ii. **Education Qualifications**:B.Tech.(ECE)

M.Tech. (Radio Physics &Electronics)

iii. **WorkExperience**:

- Teaching: 13 years
- Research : 2 years
- Industry :NIL
- Others :NIL

iv. **Area of Specialization**: RFEngineering

v. **Courses taught at Under Graduate Level**: Solid State Devices, Analog Electronics, EM Theory and Transmission Lines, Communication, InformationTheory and Coding, RF and Microwave Engineering, RenewableEnergy

vi. **Researchguidance**:

- No. of papers published in National/ International Journals/ Conferences: NIL
- Master :NIL
- Ph.D. : NIL

vii.**Projects carried out:** B.Tech. Projects

viii. **Patents:**NIL

ix. **Technology Transfer:** NIL

x. **Research Publications**:01

xi. **No. of Books published with details**:NIL

i. Name: Mayumi Mukherjee

ii. Unique id: 1-11055093618

iii. **Education Qualifications: M.Tech**

iv. WorkExperience:

- Teaching: 11
- Industry: 00
- Others: 00

v. **Area of Specialization: Advanced Communication Engineering**

vi. **Courses taught at Under Graduate Level: ECE**

vii. **Research guidance:**

- No. of papers published in National/International Journals/Conferences:
- Research: 00 • Master :
- Ph.D.:

viii. **Projects carried out**: NIL

ix. **Patents:** NIL

x. **Technology Transfer: NIL**

xi. **Research Publications:** 04

xii. **No. of Books published with details:** NIL

i. **Name:** Tapas Pattanayek

ii. **Unique id:**1-3666221469

iii. **Education Qualifications**: Diploma, B.Tech,M.Tech

iv. Work Experience:

- Teaching: 6 years
- Research: NIL
- Industry: NIL
- Others: NIL

v. **Area of Specialization**: Water Resource Engineering.

vi. **Courses taught at Under Graduate Level**: Water Resource Engineering, Construction Planning & management, Engineering Geology, Fluid Mechanics, Hydraulic Structure, Surveying, Concrete Technology, Environmental Pollution & Control etc.,

vii. Research guidance:

- No. of papers published in National/ International Journals/ Conferences: NIL
- Master:NIL
- Ph.D.:NIL

viii. **Projects carried out:** B.Tech project

ix.**Patents:**NIL

x. **Technology Transfer:** NIL

xi. **Research Publications:**3

xii. **No. of Books published with details:**1

Dr. Syed Omar Ballari, Dr. Dharmendra, Mr. Tapas Pattanayek, Dr. Rohit Kumar,"Construction Materials", ISBN No. 978-93-5757-696-3[published on December,2023]

i. **Name:** Indrajit Pahari

ii. **Unique id:1-7584493059**

iii. **Education Qualifications:** M.Tech

iv. WorkExperience:

- Teaching: 2years
- Research :NIL
- Industry :NIL
- Others :NIL

v. **Area of Specialization:** Structural Engineering

vi. CoursestaughtatUnderGraduateLevel:Strength of Material, Structural Analysis, Design of Reinforced of CementConcrete, Design of Steel Structure,Transportation Engineering,Pavement Design,Advance highway and Transportation Engineering,Environmental Engineering,Introduction to Civil Engineering

vii. Research guidance:

- No. of papers published in National/ International Journals/ Conferences: 1
- Master:NIL
- Ph.D. :NIL

viii. **Projects carried out:**B.Tech Project

ix.**Patents:**NIL

x. **Technology Transfer:** NIL

xi. **Research Publications:**NIL

xii. **No. of Books published with details:**NIL

i. **Name: SOUVIK SEN**

ii. **Unique id:1-11069043537**

iii. **Education Qualifications: M.TECH**

iv. **Work Experience:**

- Teaching: 1.6 Yrs
- Research: NA
- Industry: NA
- Others: NA

v. **Area of Specialization: STRUCTURAL ENGINEERING**

vi. **Courses taught at Under Graduate Level: B.TECH**

vii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences: NA
- Master : NA
- Ph.D.: NA

viii. **Projects carried out**: NA

ix. **Patents: NA**

x. **Technology Transfer: NA**

xi. **Research Publications: NA**

xii. **No. of Books published with details: NA**

i. **Name**: Dr. Anandala Gayen

ii. **Uniqueid:** 1-9604030999

iii. **Education Qualifications**: B.Sc, M.Sc., M. Tech, Ph.D

iv. WorkExperience:

- Teaching: 16 Year
- Research:NIL
- Industry:NIL
- Others:NIL

v. **Area of Specialization:**Physics

vi. **CoursestaughtatUnderGraduateLevel:**Physics

vii. **Research guidance:**NIL

- No. of papers published in National/ InternationalJournals/ Conferences: NIL
- Master:NIL
- Ph.D.:NIL

viii. **Projects Carried out:** NIL

ix.**Patents:**NIL

x. **Technology Transfer:** NIL

xi. **Research Publications:**08

xii. **No.ofBookspublishedwithdetails**:NIL

i. **Name: ANINDITA BANERJE**

ii. **Unique id: 1-9516285518**

iii. **Education Qualifications:M. Tech**

iv. **WorkExperience:**

- Teaching: 10 years
- Research: Nil
- Industry: Nil
- Others: Nil

v. **Area of Specialization: Instrumentation**

vi. **Courses taught at Under Graduate Level: Communication, Instrumentation**

vii. **Research guidance:**

- Master : nil
- Ph.D.: nil

viii. **Projects carried out**: Nil

ix. **Patents: Nil**

x. **Technology Transfer: nil**

xi. **Research Publications: 03**

xii. **No. of Books published with details: Nil**

i) Name: Sanjib Kumar Dey

ii) Unique id: 1-47127231373

iii) Education Qualifications: M.Tech

iv) WorkExperience: Teaching: 1 Years
Research:NA
Industry: 19 Years
Others: NA

v) **Area of Specialization: Communication**

vi) **Courses taught at Under Graduate Level: ECE**

vii) Research guidance: No.ofpaperspublishedinNational/InternationalJournals/Conferences:
Master:NA

viii) **Projects carried out**: NA

ix) **Patents:NA**

x) Technology Transfer: NA

xi) **Research Publications:NA**

xii) **No. of Books published with details:NA**

i. Name: Dr. SUSMIT BAGCHI

ii. Unique id: 1-47120929593

iii. **Education Qualifications:**

Ph.D

iv. WorkExperience:

- Teaching: 22 Years
- Research:
- Industry:NA
- Others:NA

v. **Area of Specialization: Distributed System**

vi. **Courses taught at Under Graduate Level: CSE**

vii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences:
- Master:4
- Ph.D.:NA

viii. **Projects carried out**:

ix. **Research Publications:**40

x. **No. of Books published with details:NA**

i. Name: SK SAHABUDDIN

ii. Unique id: 1-43566358151

iii. **Education Qualifications: M.Sc, B.Ed, M.Ed**

iv. Work Experience:

- Teaching:
- Research:
- Industry:
- Others:

v. **Area of Specialization: Physical Chemistry**

vi. **Courses taught at Under Graduate Level: Chemistry**

vii. **Research guidance:**

- No. of papers published in National/ International Journals/ Conferences:
- Master :
- Ph.D.:

viii. **Projects carried out**: "Synthesis and characterization of a Ru(II) precursor and ligands of biological relevance"

ix. **Patents:**

x. **Technology Transfer:**

xi. **Research Publications:**

xii. **No. of Books published with details:**

i. Name: PARTHA MITRA

ii. Unique id: 1-43564962111

iii. **Education Qualifications: Ph.D, Post-doc.(IIT-KGP**

iv. Work Experience:

- Teaching: 13 yrs.
- Research: 8.5 yrs.
- Industry: 5 yrs.
- Others: NIL

v. **Area of Specialization:** VLSI Design, Artificial Intelligence, Machine learning

vi. **Courses taught at Under Graduate Level:** Artificial Intelligence, Machine learning , Computer Architecture, Finite Automata, Computer Organization.

vii. **Research guidance:**

- No. of papers published in National/ International Journals/ Conferences: Conference 14, Journal 10
- Master : 2
- Ph.D.: NIL

viii. **Projects carried out**: NIL

ix.**Patents: NIL**

x. **Technology Transfer: NIL**

xi. **Research Publications:** Conference 14, Journal 10

xii. **No. of Books published with details: NIL**

i. Name: TITHI DAS

ii. Unique id: 1-46574358812

iii. **Education Qualifications: M.Tech(AEIE)**

iv. Work Experience:

- Teaching: 2 Years
- Research:
- Industry:
- Others:

v. **Area of Specialization: Power Electronics**

vi. **Courses taught at Under Graduate Level: Power System, Electrical M/C, Power Electronics, Circuit Theory**

vii. **Research guidance:**

- No. of papers published in National/ International Journals/ Conferences:
- Master :
- Ph.D.:

viii. **Projects carried out**: Development SPV based UPQC controller for grid power quality improvement.

ix. **Patents:**

x. **Technology Transfer:**

xi. **Research Publications: 01**

xii. **No. of Books published with details:**

i.Name: Prama Naskar

ii. Unique id: 1-43555205361

iii. Education Qualifications: Pursuing PhD, M.Tech in Geotechnical Engineering

iv. Work Experience: 8 years of experience in academics

- Teaching: 7 years experience
- Research: 1 year
- Industry: No
- Others: NA

v. Area of Specialization: Geotechnical Engineering

vi. Courses taught at Under Graduate Level: Soil Mechanics- I, Soil Mechanics- II, Foundation Engineering, Deep Foundation, Transportation Engineering, Pavement Design, Pavement materials, Concrete Technology, Environmental Engineering, Water Resource Engineering, Ground Improvement Techniques, Introduction to Civil Engineering, Soil mechanics Laboratory, Transportation Engineering Laboratory, Engineering Geology Laboratory and Concrete Technology Laboratory

vii. Research guidance: No

- No. of papers published in National/ International Journals/ Conferences: NO
- Master : M.Tech in Geotechnical Engineering
- Ph.D.: Pursuing PhD

viii. Projects carried out: No

ix. Patents: No

x. Technology Transfer: No

xi. Research Publications: 02

xii. No. of Books published with details: No

i. Name: Sourav Mitra

ii. Unique id: 1-7386556646

iii. **Education Qualifications: M.Tech.**

iv. Work Experience:

- Teaching: 7.5 Years
- Research:
- Industry:
- Others:

v. **Area of Specialization: Geotechnical Engineering**

vi. **Courses taught at Under Graduate Level: Civil Engineering**

vii. **Research guidance:**

- No. of papers published in National/ International Journals/ Conferences: 4 International
- Master : **Geotechnical** Engineering
- Ph.D.: NA

viii. **Projects carried out**: NA

ix.**Patents: NA**

x. **Technology Transfer: NA**

xi. **Research Publications: 4**

xii. **No. of Books published with details: NA**

i. Name: PinakiRanjan Ghosh

ii. Unique id: 1-43565040940

iii. **Education Qualifications:** M.Sc., PhD(Pursuing, Pre-submission Seminar done)

iv. Work Experience:

- Teaching: 1 year
- Research: 5 year
- Industry: Nil
- Others: Nil

v. **Area of Specialization:** Differential geometry

vi. **Courses taught at Under Graduate Level:** Linear Algebra, Multivariate Calculus, Differential Equation, Complex Analysis, Probability and Statistics, Numerical Analysis, Discrete Mathematics.

vii. **Research guidance:**

- No. of papers published in National/ International Journals/ Conferences: Nil
- Master : Nil
- Ph.D.: Nil

viii. **Projects carried out**: Nil

ix. **Patents:** Nil

x. **Technology Transfer:** Nil

xi. **Research Publications:** 8

xii. **No. of Books published with details:** Nil

i. Name: Rudra Sen

ii. Unique id: 1-9516285518

iii. Education Qualifications: M. Sc in Mathematics

iv. **Engineering:**

v. WorkExperience:

- Teaching: 8 years
- Research:
- Industry:
- Others:

vi. **Area of Specialization: Mathematics**

vii. **Courses taught at Under Graduate Level: Mathematics-IA,IB etc**

viii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences:
- Master :
- Ph.D.:

ix. **Projects carried out**:

x. **Patents:**

xi. **Technology Transfer:**

xii. **Research Publications:**

xiii. **No. of Books published with details:**

i) **Name:BIDROHI BHATTACHARJEE**

ii) **Unique id: 1-11140082261**

iii) **Education Qualifications: M.TECH,**
PhD(Submitted)

iv) WorkExperience: Teaching: 18 Years
Research:7Years
Industry: 03 Years
Others: NA

v) **Area of Specialization: RENEWABLE ENERGY, POWER ELECTRONICS AND DRIVES**

vi) **Courses taught at Under Graduate Level: B.TECH**

vii) Research guidance:
No.ofpaperspublishedinNational/InternationalJournals/Conferences:
Master :
Ph.D

viii) **Projects carried out**: NA

ix) **Patents:10**

x) Technology Transfer

xi) **Research Publications:17**

xii) **No. of Books published with details:NA**

i. Name: RATON MISTRY

ii. Unique id: 1-43951867140

iii. **Education Qualifications: M. Tech , MBA**

iv. WorkExperience:

- Teaching: 2 YEARS
- Research:NIL
- Industry:02 YEARS
- Others:NIL

v. **Area of Specialization:ECE**

vi. **Courses taught at Under Graduate Level: Basic Electronics, Analog Electronics etc.**

vii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences: NIL
- Master :NIL
- Ph.D.:NIL

viii. **Projects carried out**: NIL

ix.**Patents:NIL**

x. **Technology Transfer: NIL**

xi. **Research Publications:NIL**

xii. **No. of Books published with details:NIL**

i. Name: MR. SHIBABRATA MUKHERJEE

ii.Unique id: 1-43721717637

ii. **Education Qualifications: M.TECH, Ph.D (SUBMITTED)**

iii. WorkExperience:

- Teaching: 1 years
- Research:4 years
- Industry:nil
- Others:nil

iv. **Area of Specialization: Illumination Technology, Free Space optical communication**

v. **Courses taught at Under Graduate Level:** CONTROL SYSTEM, RENEWABLE ENEREGY SOURCES,ANALOG ELECTRONICS, INTERNET OF THINGS, ELECTRICAL MACHINE DESIGN, UTILIZATION OF ELECTRIC POWER.

vi. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences: 12
- Master :nil
- Ph.D.:nil

vii.**Projects carried out**: (some important ones)

Experimental Studies of Free Space Laser Communication Link for data & voice transmission in Different Atmospheric Conditions funded by D.R.D.O, India

viii. Patents:Nil

ix. **Technology Transfer: nil**

x. **Research Publications:12**

Xii. No. of Books published with details:NIL

i. Name: PRIYANKA BERA

ii. Unique id:

iii. **Education Qualifications: M.Sc(Botany), M.Phil(Botany), M.ED, M.A.(Education),Ph.D in education(Pursuing)**

iv. WorkExperience:

- Teaching: 4.5 years
- Research:1 year
- Industry: nil
- Others:nil

v. **Area of Specialization:** Industrial Microbiology

vi. **Courses taught at Under Graduate Level: Life Science method, Learning & Teaching etc.**

vii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences: nil
- Master :nil
- Ph.D.-nil

viii. **Projects carried out**: Nil

ix. Patents:Nil

x. **Technology Transfer: nil**

xi. **Research Publications:4**

xii. **No. of Books published with details:NIL**

i. Name: PRIYA BHATTACHARYYA

ii. Unique id: 1-9605634569

iii. **Education Qualifications: MA in English**

iv. WorkExperience:

- Teaching: 11 years
- Research: Nil
- Industry:nil
- Others:nil

v. **Area of Specialization:** English

vi. **Courses taught at Under Graduate Level: English, soft skill etc.**

vii. **Research guidance:**

- No.ofpaperspublishedinNational/InternationalJournals/Conferences: nil
- Master :nil
- Ph.D.-nil

viii. **Projects carried out**: Nil

ix. Patents:Nil

x. **Technology Transfer: nil**

xi. **Research Publications:nil**

xii. **No. of Books published with details:NIL**

9. Fee

- **Details of fee, as approved by State Fee Committee, W.B for theInstitution**

FEE STRUCTURE OF B. TECH for 2025-26 Session								
Fee Break up	Sem 1	Sem 2	Sem 3	Sem 4	Sem 5	Sem 6	Sem 7	Sem 8
College Registration Fee	18000	NA	NA	NA	NA	NA	NA	NA
Tuition Fee	62000	62000	52000	52000	52000	52000	42000	42000
Library Fee	500	500	500	500	500	500	500	500
Students' Welfare Fee	1500	1500	1500	1500	1500	1500	1500	1500
TOTAL	82000	64000	64000	64000	56000	64000	44000	44000

- **Time schedule for payment of fee for the entire programme(Table)**

Sl. No.	semester	Payment Schedule
1	1st Semester	payment at the time of Admission or on and before August
2	2nd/4th/6th/8th Semester	payment in the month of December
3	3rd/5th / 7thSemester	payment in the month of May

- **No. of Full Tuition Fee waivers granted with amount and name ofstudents (Table)**

Student Name	Batch	Tuition Fee waivers (Rs.)
NIL	2023-24	NIL

- **Number of scholarship offered by the Institution, duration andamount: 05**

- **Criteria for feewaivers/scholarship**

  The scholarship and tuition fee waiver are given to the students of the Institution based on Merit cum Means.

- **Estimated cost of Boarding and Lodging in Hostels:** Rs. 7500/- permonth

- **Any other fees(please specify): NA**

10. Admission

- **Number of seats sanctioned with the year ofapproval**

Sl. No.	COURSE	Approved Intake (2024-25)	Applied Intake (2025-26)
1	CSE	60	60
2	ECE	30	30
3	EEE	30	30
4	CIVIL	30	30

- **Number of Students admitted under various categories each year in thelast threeyears**

SL NO.	COURSES	Approved Intake Capacity	Admission in 2025	Admission in 2024	Admission in 2023
1	CSE	60	05+24(Lat)	20+06(Lat)	44+32(Lat)
2	ECE	30	0+15(Lat)	0+3(Lat)	03+04(Lat)
3	EEE	30	0+22(Lat)	0+05(Lat)	01+15(Lat)
4	CIVIL	30	0+37(Lat)	0+19(Lat)	00+12(Lat)

- **Number of applications received during last two years for admissionunder Management Quota and number admitted:**NIL

11. AdmissionProcedure

- The following admission test is being followed and its name & URL (website) is givenbelow:
  1. **WBJEE,** Website link-https://www.wbjeeb.in
  2. **JEE(MAINS),** Website link-https://www.jeemain.nic.in
- Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test):**10%forJEE-MAINSand90%forWBJEE**
- Calendar for admission against Management/vacant seats:**N/A**

12. Criteria and Weight ages forAdmission

- Description of each criterion with its respective weight ages i.e. Admission Test, marks in qualifying examination etc. : As per norms stipulated by WBJEE BOARD
- The cut-off levels of percentage and percentile score of the candidates in the admission test for the last threeyears

Course	WBJEE / JEEMAINS Rank of admission 2021-22	WBJEE / JEEMAINS Rank of admission 2022-23	WBJEE / JEEMAINS Rank of admission 2023-24
CSE	3705-55536	14303-910611	26455-827272
EEE	0	0	69217
ECE	0	78515	---
CIVIL	58089-58089 5727-5725(L)	54116	---

- Marks obtained in JEE Test and in aggregate in qualifying examination (H.S) for all candidates who were admitted in this Institute is given below in tabular format(2022-2023):B TECH:

Sl.no	Name	Course ID	Rank	HS MARKS(%)
1	DURJOY ROY	EEE156	69217	82.8
2	RAJIB DAS	CSE 156	64156	75.8
3	ARNAB BARMAN	CSE 156	32990	72.8
4	DEBANSHU PRADHAN	CSE 156	66649	80
5	UTSAB ROYCHOWDHURY	CSE 156	20514	79.1
6	SAPTAK MODAK	CSE 156	72622	77.8
7	ADITY MAITY	CSE 156	52373	72.6

13. List ofApplicants

- List of candidate whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for openseats:

- List of candidate who have applied along with percentage and percentile score for Management quota seats:N.A

14. Results of Admission under Management seats/Vacant seats:NA

15. Information of Infrastructure and Other ResourcesAvailable

Infrastructural information	
Number of Class Rooms and size of each:	15 Nos. of class room with 66 sq.m each.
Number of Tutorial rooms and size of each:	3 Nos. of tutorial room with 33 sq.m each.
Number of Laboratories and size of each:	26Nos. of laboratory with 66sq.m each. 2 Nos. of laboratory with 132 sq.meach
Number of Drawing Halls with capacity of each :	1 No. of Drawing with 132 sqm.
Number of Computer Centers with capacity of each:	1 no. of Computer Center with 100 capacity
No of Work Shop :	1 No. of Workshopwith 200sq.m.
No of Additional Workshop :	1 No. of Additional Workshopwith 200 sq.m.
No. of Seminar Hall :	1 No. of Seminar Hall with 264 sq.m 1 No. of Seminar Hall with 132 sq.m

- **Central Examination Facility:** Available
- Online examination facility(number of nodes,bandwidth): Available
- **Barrier Free Built Environment for disabled and elderly persons :** Yes
- **Occupancy Certificate:**Available
- **Fire and Safety Certificate:** Applied and underprocessing
- **Hostel Facilities:**Yes

Library

- **Number of Library books/ Titles/ Journals available(program-wise):**
  - Librarybooks:15808
  - Titles:2056
  - Journals: National- 20, International:4
- **List of online National/ International Journals subscribed:**KOHA on cloud, J-Gate
- **E- Library facilities:**Available.

- **National digital library(NDL)subscription details: Member (Club Registration No.:INWBNC4FWW2EQZQ)**

Laboratory and Workshop

- List of Major Equipment/Facilities in each Laboratory/Workshop

Department	Laboratories	Count	Norms
COMPUTER SCIENCE & ENGINEERING	S/W Tools, Computer Organization, Computer Architecture Lab, Design Analysis of Algorithm Lab, Data Communication &Networking Lab, Object Oriented Programming , Data Structure & Algorithm Lab, DBMS & E-commerce Lab	6	As per the affiliating University norms &standard
ECE	EM Theory &Txln Lab &, Microprocessors and Microcontroller Lab, Digital Electronics & Integrated Circuit Lab, Digital Communication, Analog Communication Design Lab (Industrial Training Lab), Analog Electronics & Digital Electronics Circuit Lab	6	As per the affiliating University norms &standard
EEE	Power Electronics Lab & Control System Lab, Electrical Machine I & II Lab, Electrical & Electronics Measurement Lab, Basic Electrical Lab, Power System Lab-II, Circuit Theory Lab & Network Lab, Transducer & Sensor Lab.	6	As per the affiliating University norms &standard
CIVIL ENGINEERING	Surveying & Geometrics, Soil Mechanics Lab , Solid Mechanics Lab, Concrete Lab, Fluid Mechanics Lab, High way & Transportation Engg Lab,	6	As per the affiliating University norms &standard
COMMON LABORATORIES	Numerical Methods & OR Lab, Mechanical Workshop, Engg drawing Lab, Basic Physics Lab, Basic Chemistry Lab, Language Lab, PROJECT Lab.	4	As per the affiliating University norms &standard

- List of Experimental Setup in each Laboratory/ Workshop: Experiment setup for few laboratories across the departments is givenbelow.

Analog & Digital Electronics Lab
Course Code: ESC-391

Analog Electronics

1 Design a Class A amplifier
2 Design a Phase-Shift Oscillator
3 Design of a Schmitt Trigger using 555 timer

Digital Electronics

4 Design a Full adder using basic gates & verify its output
5 Construction of simple Decoder & Multiplexer circuits using logic gates.
6 Realization of RS / JK / D flip flops using logic gates
7 Design of Shift Register using J-K / D Flip Flop
8 Realization of Synchronous Up/Down counter
9 Design of MOD- N Counter
10 Study of DAC

Data Structure & Algorithm Lab
Course Code: PCC-CS391

Linear Data Structure

1 Implementation of array operations
2 stacks & Queues: adding, deleting elements Circular Queue: Adding & deleting
3 merging Problem: Evaluation of expressions operations on Multiple stacks & queues
4 implementation of linked list: inserting,deleting,inverting a linked list.
5 Polynomial addition, Polynomial multiplication

Non Linear Data Structure

6 Recursive and Non-recursive traversal of Trees
7 Threaded binary tree traversal. AVL tree implementation
8 Applications of Trees. Application of sorting and searching algorithms
9 hash table implementation: searching, inserting and deleting, searching & sorting techniques

Computer Organization Lab
Course Code: PCC-CS392

1 familiarity with IC Chips a: multiplexor, b: decoder, c: encoder,d: comparator
Truth table verification
2 Design an Adder/Subtractor composite unit.
3 Design a BCD adder.
4 Design of a 'Carry-Look-Ahead' Adder circuit.
5 Use a multiplexer unit to design a composite ALU
6 Use ALU chip for multibit arithmetic operation
7 Implement read write operation using RAM IC
8 (a) & (b) Cascade two RAM ICs for vertical and horizontal expansion.

IT Workshop
Course Code: PCC-CS392

Programming with python

Introduction

History, Features, Setting up path, Working with Python, Basic Syntax, Variable and DataTypes, Operator

ConditionalStatements

If,If-else, Nestedif-else,Looping,For,While,Nested loops

Control Statements

Break,Continue,Pass

StringManipulation

AccessingStrings, BasicOperations,Stringslices, Function and Methods

Lists

Introduction,Accessing list,Operations, Workingwithlists,FunctionandMethods

Tuple

Introduction,Accessing tuples,Operations,Working,FunctionsandMethods

Dictionaries

Introduction,Accessing valuesin dictionaries,Workingwithdictionaries,Properties

Functions

Definingafunction,Callingafunction,Typesoffunctions,FunctionArguments,Anonymousfunctions,Globaland local variables

Modules

Importing module, Math module, Random module, Packages, Composition, Input-OutputPrintingonscreen,Readingdatafromkeyboard,Openingandclosingfile,Readingandwritingfiles,Functions

Exception Handling

Exception,ExceptionHandling,Except clause,Try?finallyclause, UserDefinedExceptions.

ComputerArchitectureLabCode:PCC-CS492

1	HDLintroduction.
2	BasicdigitallogicbaseprogrammingwithHDL
3	8-bitAddition,Multiplication,Division
4	8-bitRegisterdesign
5	Memoryunitdesignandperformmemoryoperations.
6	8-bitsimpleALUdesign
7	8-bitsimpleCPUdesign
8	InterfacingofCPUand Memory.

Design&AnalysisAlgorithmLabCode:PCC-CS494

DivideandConquer:	
1	ImplementBinarySearchusingDivideandConquerapproachImplementMergeSortusingDivideandConquerapproach
2	ImplementQuickSortusingDivideandConquerapproach Find Maximum and Minimum element from a array of integer using Divide andConquerapproach
3	Find the minimum number of scalar multiplication needed for chain ofmatrix
4	Implement all pair of Shortest path for a graph (Floyed- Warshall Algorithm)ImplementTravelingSalesmanProblem
5	ImplementSingleSourceshortestPathforagraph(Dijkstra,BellmanFord Algorithm
BrunchandBound:	
6	Implement15PuzzleProblem
Backtracking:	
7	Implement8Queenproblem

8	Graph Coloring ProblemHamiltonianProbl em
Greedymethod	
9	KnapsackProblem Jobsequencingwithdeadlines
10	Minimum Cost Spanning Tree by Prim's AlgorithmMinimumCostSpanningTreebyKruskal'sAlgorithm
GraphTraversalAlgorithm:	
11	ImplementBreadthFirstSearch(BFS)
12	ImplementDepthFirstSearch(DFS)

Software Engineering Lab Code:ESC591

- Problem Analysis and Project Planning -Thorough study of the problem – Identify Projectscope,Objectives and Infrastructure.
- SoftwareRequirementAnalysis– DescribetheindividualPhases/modulesoftheprojectandIdentifydeliverables.Identifyfunctionalandnon-functionalrequirements.
- DataModeling–Useworkproducts–datadictionary.
- Software Designing - Develop use case diagrams and activity diagrams, build and testclassdiagrams,sequencediagramsandaddinterfacetoclassdiagrams.
- Prototypemodel–Developtheprototypeoftheproduct.

TheSRSandprototypemodelshouldbesubmittedforendsemesterexamination.

OperatingSystemLabCode:PCC-CS592

11.**ManagingUnix/LinuxOperatingSystem[8P]:**
Creating a bash shell script, making a script executable, shell syntax (variables, conditions,controlstructures,functions, commands). Partitions, Swap space, Device files, Raw and Block files, Formatting disks,Makingfilesystems, Superblock,I-nodes, Filesystemchecker, Mountingfilesystems, LogicalVolumes,NetworkFilesystems,Backupschedulesand methodsKernel loading, initandtheinittabfile,Run-levels,Runlevel scripts.Password filemanagement,Password security,Shadowfile,Groupsandthegroupfile,Shells,restricted shells,user-managementcommands,homes and permissions, default files, profiles, locking accounts, setting passwords, Switching user,Switchinggroup,Removingusers&usergroups.
2. **Process [4P]**: startingnewprocess,replacing a process image,duplicating a processimage,waiting foraprocess, zombieprocess.
3. **Signal[4P]**:signalhandling,sendingsignals,signal interface,signalsets.
4. **Semaphore [6P]**:programmingwithsemaphores(usefunctionssemctl,semget,semop,set_semvalue,del_semvalue,semaphore_p,semaphore_v).
5. **POSIXThreads[6P]**:programmingwithpthreadfunctions(viz.pthread_create,pthread_join,pthread_exit, pthread_attr_init,pthread_cancel)
6. **Inter-processcommunication[6P]**:pipes(usefunctionspipe,popen,pclose),namedpipes(FIFOs,accessingFIFO), messagepassing&shared memory(IPCversion V).

ObjectOrientedProgrammingLab
Code:PCC-CS593

1. Assignmentsonclass,constructor,overloading,inheritance,overriding
2. Assignmentsonwrapperclass,arrays
3. Assignmentsondevelopinginterfaces-multipleinheritance, extendinginterfaces
4. Assignments oncreatingandaccessing packages
5. Assignmentsonmultithreadedprogramming
6. Assignmentsonappletprogramming

Note:UseJavaforprogramming

DatabaseManagementSystemLabCode:PCC-CS691

StructuredQueryLanguage

1. CreatingDatabase

- CreatingaDatabase
- CreatingaTable
- SpecifyingRelationalDataTypes
- SpecifyingConstraints
- CreatingIndexes

2. TableandRecord Handling

- INSERTstatement
- UsingSELECT andINSERTtogether
- DELETE,UPDATE,TRUNCATEstatements
- DROP, ALTERstatements

3. RetrievingDatafromaDatabase

1. TheSELECTstatement
2. UsingtheWHEREclause
3. UsingLogicalOperatorsintheWHEREclause
4. UsingIN, BETWEEN,LIKE ,ORDERBY,GROUPBYandHAVING

Clause

5. UsingAggregateFunctions
6. CombiningTablesUsingJOINS
7. Subqueries

4. DatabaseManagement

- CreatingViews
- CreatingColumnAliases
- CreatingDatabaseUsers
- UsingGRANTandREVOKE

5. CursorsinOraclePL/ SQL

6. WritingOraclePL/SQLStoredProcedures

Computer Networks Lab Code: PCC-CS692

1) NICInstallation&Configuration(Windows/Linux)
2) UnderstandingIPaddress,subnetetcFamiliarizationwith
   - Networkingcables(CAT5, UTP)
   - Connectors(RJ45,T-connector)
   - Hubs,Switches
3) TCP/UDPSocketProgramming
   - Simple,TCPbased,UDPbased
   - Multicast&BroadcastSockets
   - ImplementationofaPrototypeMultithreadedServer
4) Implementation of
   DataLinkLayer FlowControlMechanism(Stop&Wait,SlidingWindow)Data Link Layer Error Detection Mechanism (Cyclic Redundancy Check)DataLinkLayer ErrorControlMechanism(SelectiveRepeat, GoBackN)
5) Server Setup/ConfigurationFTP,TelNet,NFS,DNS,
Firewall

Department of ECE:

Paper Code- EC391 Paper Name- Electronics Devices Lab

Topics

1. identifying and study of different components like resistor, capacitors, diodes, LED, Transistors, FET(JFET & MOSFET) etc
2. Study of different instruments used in the laboratories like, power supply, Oscilloscope, Multimeter etc.
3. CHARACTERISTICS OF PN JUNCTION DIODE a) To Plot the Volt Ampere Characteristics of PN Junction Diode under Forward and Reverse Bias Conditions. b) To find the Cut-in voltage, Static Resistance, Dynamic Resistance for Forward Bias & Reverse Bias
4. CHARACTERISTICS OF ZENER DIODE & LOAD REGULATION a) To Obtain the Forward Bias and Reverse Bias characteristics of a Zener diode. b) Find out the Zener Break down Voltage from the Characteristics. c) To Obtain the Load Regulation Characteristics.
5. COMMON BASE BIPOLAR TRANSISTOR CHARACTERISTICS a) To plot the Input and Output characteristics of a transistor connected in Common Base Configuration and to find the h – parameters from the characteristics.
6. COMMON EMITTER BIPOLAR TRANSISTOR CHARACTERISTICS a) To plot the Input and Output characteristics of a transistor connected in Common Emitter Configuration and to find the h – parameters from the characteristics
7. DESIGN SELF BIAS BJT CIRCUIT
8. JFET DRAIN & TRANSFER CHARACTERISTICS (COMMON SOURCE) a) Drain characteristics b) Transfer Characteristics. c) To find rd, gm, and μ from the characteristics.
9. Study Characteristics of Photo transistor
10. Study Characteristics of LED & LDR Course Outcome a) An ability to verify the working of different diodes, transistors, CRO probes and measuring instruments. Identifying the procedure of doing the experiment. b) Ability to understand the characteristics of BJT and FET and how to Determine different parameters for designing purpose.. c) Ability to understand properties of photoelectric devices d) Ability to measure and record the experimental data, analyze the results, and prepare a formal laboratory report.

Paper Code- EC392 Paper Name- Digital System Design Lab

Topics

1. Introduction to Digital Electronics Lab- Nomenclature of Digital Ics, Specifications, Study of the Data Sheet, Concept of Vcc and Ground, Verification of the Truth Tables of Logic Gates using TTL ICs.
2. Implementation of the Given Boolean Function using Logic Gates in Both Sop and Pos Forms.
3. Verification of State Tables of Rs, J-k, T and D Flip-Flops using NAND & NOR Gates
4. Implementation and Verification of Decoder/De-Multiplexer and Encoder using Logic Gates.

5. Implementation of 4x1 Multiplexer using Logic Gates.
6. Implementation of 4-Bit Parallel Adder Using 7483 IC.
7. Design , and Verify the 4- Bit Synchronous Counter
8. Design, and Verify the 4-Bit Asynchronous Counter.
9. Simulation of MOS Inverter with different loads using PSPICE software
10. Simulation of CMOS Inverter for different parameters Kn, Kp as a design variable in suitable circuit simulator software.
11. Design of a 4-bit Multiplexer using VHDL\Verilog
12. Design of a decade counter using VHDL\Verilog.
13. Design of a 3-input NAND gate and its simulation using suitable logic simulator Book List 1. Douglas L.Perry, "VHDL: Programming by Example", McGraw-Hill, 2002. 2. Charles H. Roth, Lizy Kurian John, "Digital systems design using VHDL", Thomson, 2008.

Paper Code - ES-CS391 Paper Name- Data Structure & Algorithm Lab.

Topics

Experiments should include but not limited to :

1. Implementation of array operations:

   Stacks and Queues: adding, deleting elements Circular Queue: Adding & deleting elements Merging Problem: Evaluation of expressions operations on Multiple stacks & queues :
2. Implementation of linked lists: inserting, deleting, and inverting a linked list.
3. Implementation of stacks & queues using linked lists: Polynomial addition, Polynomial multiplication
4. Sparse Matrices: Multiplication, addition. Recursive and Non recursive traversal of Trees
5. Threaded binary tree traversal.
6. AVL tree implementation Application of Trees.
7. Application of sorting and searching algorithms Hash tables' implementation: searching, inserting and deleting, searching & sorting techniques.

Paper Code- **EC 491** Paper Name- **Analog Communication Lab**

1. Measurement of modulation index of an AM signal.
2. Measurement of output power with varying modulation index an AM signal(for both DSB- &SSB).
3. Measurement of distortion of the demodulated output with varying modulation index of an AM signal (for both DSB-SC & SSB).
4. Measurement of power of different frequency components of a frequency modulated signal & the measurement of the bandwidth.
5. Design and set up a PLL using VCO & to measure the lock frequency.
6. Design and set up a FM demodulator using PLL.
7. Measurement of SNR of a RF amplifier.
8. Measurement of selectivity, sensitivity, fidelity of a superheterodyne receiver.
9. One innovative experiment.

Paper Code: EC492 Paper Name: **Analog Electronic Circuits Lab**

1. Conduct experiment to test diode clipping (single/double ended) and clamping

circuits (positive/negative).

2. Design and set up the following rectifiers with and without filters and to determine ripple factor and rectifier efficiency: (a). Full Wave Rectifier (b). Bridge Rectifier
3. Design and set up the BJT common emitter amplifier using voltage divider bias with and without feedback and determine the gain- bandwidth product from its frequency response.
4. Set-up and study the working of complementary symmetry class B push pull Power amplifier and calculate the efficiency
5. Realize BJT Darlington Emitter follower with and without bootstrapping and determine the gain, input and output impedances
6. Conduct an experiment on Series Voltage Regulator using Zener diode and Power transistor to determine line and load regulation characteristics.
7. Design and set-up the following tuned oscillator circuits using BJT, and determine the frequency of oscillation. R-C Phase shift Oscillator/Wien Bridge Oscillator
8. Plot the transfer & drain characteristics of n-Channel mosfet.& calculate its parameter namely drain resistance, mutual conductance & amplification factor
9. Design, setup and plot the frequency response of Common Source JFET/MOSFET amplifierand obtain the bandwidth.

Paper Code: EC493 Paper **Name: Microprocessor & Microcontroller Lab**

1. Familiarization with 8085 & 8051simulator on PC.
2. Study of prewritten programs using basic instruction set (data transfer, Load/Store, Arithmetic, Logical) on the KIT. Assignments based on above
3. Programming using kit and simulator for:
   - i) Table look up
   - ii) Copying a block of memory
   - iii) Shifting a block of memory
   - iv) Packing and unpacking of BCD numbers
   - v) Addition of BCD numbers
   - vi) Binary to ASCII conversion
   - vii) String Matching, Multiplication using shift and add method and Booth's Algorithm
4. Program using subroutine calls and IN/OUT instructions using 8255 PPI on the trainer kit e.g. subroutine for delay, reading switch state and glowing LEDs accordingly.
5. Study of timing diagram of an instruction on oscilloscope..
6. Interfacing of 8255: Keyboard and Multi-digit Display with multiplexing using 8255
7. Study of 8051 Micro controller kit and writing programs as mentioned in S/L3. Write programs to interface of Keyboard, DAC and ADC using the kit.
8. Serial communication between two trainer kits

Paper Code: BS-M491 **Paper Name: Numerical Methods Lab**

1. Assignments on Newton forward /backward, Lagrange's interpolation.
2. Assignments on numerical integration using Trapezoidal rule, Simpson's 1/3 rule, Weddle's rule.
3. Assignments on numerical solution of a system of linear equations using Gauss elimination and Gauss-Seidel iterations.
4. Assignments on numerical solution of Algebraic Equation by Regular-falsi and Newton Raphson methods.
5. Assignments on ordinary differential equation: Euler's and Runga-Kutta methods.
6. Introduction to Software Packages: Matlab / Scilab / Labview / Mathematica.

Paper Code: EC591 Paper Name: Electromagnetic Wave Laboratory

Module I:

1. Plotting of Standing Wave Pattern along a transmission line when the line is opencircuited, short-circuited and terminated by a resistive load at the load end.
2. Input Impedance of a terminated coaxial line using shift in minima technique.
3. Study of Smith chart on Matlab platform.
4. Simulation study of Smith chart - Single and double stub matching.

Module II:

5. Radiation Pattern of dipole antenna.
6. Radiation Pattern of a folded-dipole antenna.
7. Radiation pattern of a 3-element Yagi-Uda Antenna.
8. Beam width, gain and radiation pattern of a 3-element, 5-element and 7-element. Yagi-Uda antenna - Comparative study.
9. Radiation pattern, Gain, Directivity of a Pyramidal Horn Antenna

Paper Code: EC592 Paper Name: Digital Communication Laboratory

1.Design, implementation and study of all the properties of 7-length and 15-length pn sequences using shift register.
2.Study of PAM and demodulation
.3. Study of PCM and demodulation.
4.Study of line coders: polar/unipolar/bipolar NRZ ,RZ and Manchester.
5. Study of delta modulator and demodulator.
6. Study of adaptive delta modulator and demodulator.
7 Study of BPSK modulator and demodulator.
8. Study of BFSK modulator and demodulator.
9. Study of ASK modulator and demodulator.
10.Study of QPSK modulator and demodulator.
11. Simulation study of probability of symbol error for BPSK modulation.
12. Simulation study of probability of symbol error for BFSK modulation.

Paper Code: EC593 Paper Name: Digital Signal Processing Laboratory

Simulation Laboratory using standard Simulator:

1. Sampled sinusoidal signal, various sequences and different arithmetic operations.
2. Convolution of two sequences using graphical methods and using commands verification of the properties of convolution.
3. Z-transform of various sequences - verification of the properties of Z-transform.
4. Twiddle factors - verification of the properties.
5. DFTs / IDFTs using matrix multiplication and also using commands.
6. Circular convolution of two sequences using graphical methods and using commands, differentiation between linear and circularconvolutions.
7. Verifications of the different algorithms associated with filtering of long data sequences and Overlap -add and Overlap-save methods.
8. Butterworth filter design with different set of parameters.
9. FIR filter design using rectangular, Hamming and Blackman windows.

Hardware Laboratory using DSP Processor and Xilinx FPGA:

Paper Code: EC692 Paper Name: Computer Network Lab

1. IPC (Message queue)
2. NIC Installation & Configuration (Windows/Linux)
3. Familiarization with a) Networking cables (CAT5, UTP)
b) Connectors (RJ45, T-connector)
c) Hubs, Switches
4. TCP/UDP Socket Programming
5. Multicast & Broadcast Sockets
6. Implementation of a Prototype Multithreaded Server
7. Implementation of a) Data Link Layer Flow Control Mechanism (Stop & Wait, Sliding Window). b) Data Link Layer Error Detection Mechanism (Cyclic Redundancy Check). c) Data Link Layer Error Control Mechanism (Selective Repeat, Go Back N)

Paper Code: EC691 Paper Name: Control and Instrumentation Laboratory

1. Familiarization with MATLAB control system toolbox and representation of pole zero and transfer function of control system.
2. Determination of transfer function of a given system from its state model and its vice-versa.
3. Determination of impulse & step response for 2nd order under damped system on CRO & calculation of control system specifications for variation of system design.
4. Determination of root Locus from transfer function and evaluation of system parameters like marginal value of gain, frequency etc. of a given control system.
5. Drawing of Nyquist plot and Bode plot from transfer function of a control system and estimation of relative system parameters like gain margin, phase margin etc.
6. Design PI, PD and PID controller for specified system requirements.
7. Study of static (accuracy, precision, repeatability, linearity) and dynamic (fidelity, speed of response) characteristics of a measuring instrument.
8. Design and study of Instrumentation Amplifier.
9. Study and analysis of electrical signal with CRO.

Paper Code EC681 Paper Name: Mini Project/ Electronic Design Workshop

1. The mini-project is a team activity having 3-4 students in a team. This is electronic product design work with a focus on electronic circuit design.
2. The mini project may be a complete hardware or a combination of hardware and software. The software part in mini project should be less than 50% of the total work.
3. Mini Project should cater to a small system required in laboratory or real life.
4. It should encompass components, devices, analog or digital ICs, micro controller with which functional familiarity is introduced.
5. After interactions with course coordinator and based on comprehensive literature survey/ need analysis, the student shall identify the title and define the aim and objectives of mini-project.
6. Student is expected to detail out specifications, methodology, resources required, critical issues involved in design and implementation and submit the proposal within first week of the semester.
7. The student is expected to exert on design, development and testing of the proposed work as per the schedule.
8. Art work and Layout should be made using CAD based PCB simulation software. Due considerations should be given for power requirement of the system, mechanical aspects for enclosure and control panel design.
9. Completed mini project and documentation in the form of mini project report is to be submitted at the end of semester.
10. The tutorial sessions should be used for discussion on standard practices used for electronic circuits/product design, converting the circuit design into a complete electronic product, PCB design using suitable simulation software, estimation of power budget analysis of the product, front panel design and mechanical aspects of the product, and guidelines for documentation /report writing

Department of EEE:

Electric circuit theory

PC-EEE391

1. Transient response of R-L and R-C network: simulation with software & hardware
2. Transient response of R-L-C series and parallel circuit: simulation with software & hardware
3. Determination of Impedance (Z) and Admittance (Y) parameter of two-port network: simulation & hardware.
4. Frequency response of LP and HP filters: simulation & hardware.
5. Frequency response of BP and BR filters: simulation & hardware.
6. Generation of Periodic, Exponential, Sinusoidal, Damped Sinusoidal, Step, Impulse, Ramp signal using MATLAB in both discrete and analog form.
7. Determination of Laplace transform and Inverse Laplace transform using MATLAB.
8. Amplitude and Phase spectrum analysis of different signals using MATLAB.
9. Verification of Network theorems using software & hardware

Analog electronic laboratory

PC-EEE392

1. Study of ripple and regulation characteristics of full wave rectifier with and without capacitor filter.
2. Study of Zener diode as voltage regulator.
3. Study of characteristics curves of B.J.T &F.E.T .
4. Construction of a two-stage R-C coupled amplifier & study of it's gain & Bandwidth.
5. Study of class A, C & Push-Pull amplifiers.
6. Study of timer circuit using NE555 & configuration for monostable & astable and bistable multivibrator
7. Study of Switched Mode Power Supply & construction of a linear voltage regulator using regulator IC chip
8. Construction of a simple function generator using IC.
9. Realization of a V-to-I & I-to-V converter using Op-Amps.
10. Realization of a Phase Locked Loop using Voltage Controlled Oscillator (VCO).
11. Study of D.A.C & A.D.C.

Numerical Methods laboratory

PC-CS 391

1. Assignments on Newton forward /backward, Lagrange's interpolation.
2. Assignments on numerical integration using Trapezoidal rule, Simpson's 1/3 rule, Weddle's rule.
3. Assignments on numerical solution of a system of linear equations using Gauss elimination and Gauss-Seidel iterations
4. Assignments on numerical solution of Algebraic Equation by Regular-falsi and Newton Raphson methods.
5. Assignments on ordinary differential equation: Euler's and Runga-Kutta methods.
6. Introduction to Software Packages: Matlab / Scilab / Labview / Mathematica.

ELECTRIC MACHINE-I LABORATORY
PC-EEE-491

1. Determination of the characteristics of a separately excited DC generator.
2. Determination of the characteristics of a DC motor
3. Study of methods of speed control of DC motor
4. Determination of the characteristics of a compound DC generator (short shunt)
5. Determination of speed of DC series motor as a function of load torque.
6. Polarity test on a single phase transformer
7. Determination of equivalent circuit of a single phase transformer and efficiency.
8. Study of different connections of three phase transformer.
9. Study of Parallel operation of a single phase transformers.
10. Determination of temperature rise and efficiency of the transformer.(Back to back test)

DIGITAL ELECTRONICS LABORATORY
PC-EEE-492

1. Realization of basic gates using Universal logic gates.
2. Code conversion circuits- BCD to Excess-3 & vice-versa.
3. .4-bit parity generator & comparator circuits.
4. Construction of simple Decoder & Multiplexer circuits using logic gates.
5. Design of combinational circuit for BCD to decimal conversion to drive 7-segment display using multiplexer.
6. Construction of simple arithmetic circuits-Adder, Subtractor.
7. Realization of RS-JK & D flip-flops using Universal logic gates.
8. Realization of Universal Register using JK flip-flops & logic gates.
9. Realization of Universal Register using multiplexer & flip-flops.
10. Construction of Adder circuit using Shift Register & full Adder.
11. Realization of Asynchronous Up/Down counter
12. Realization of Synchronous Up/Down counter
13. Design of Sequential Counter with irregular sequences.
14. Realization of Ring counter & Johnson's counter.
15. Familiarization with A/D and D/A circuits.

ELECTRICAL & ELECTRONICS MEASUREMENT LABORATORY

PC-EEE-493

1. Instrument workshop- Observe the construction of PMMC, Dynamometer, Electrothermal and Rectifier type of instruments, Oscilloscope and Digital multimeter.
2. Calibrate moving iron and electrodynamometer type ammeter/voltmeter by potentiometer.
3. Calibrate dynamometer type wattmeter by potentiometer.
4. Calibrate AC energy meter.
5. Measurement of resistance using Kelvin double bridge.
6. Measurement of power using Instrument transformer.
7. Measurement of power in Polyphase circuits.
8. Measurement of frequency by Wien Bridge.
9. Measurement of Inductance by Anderson bridge
10. Measurement of capacitance by De Sauty Bridge.
11. Measurement of capacitance by Schering Bridge

THERMAL POWER ENGINEEING LABORATORY

ES-ME-491

1. Study of Cut Models – Boilers IC Engines: Lanchashire Boiler, Bahcock& Willcox Boiler, Cochran Boiler, Vertical Tubular Boiler, Locomotive Boiler, 4S Diesel Engine, 4S Petrol Engine, 2S Petrol Engine
2. Load Test on 4 Stroke Petrol Engine & Diesel Engine by Electrical Load Box.
3. Load Test on 4 Stroke Diesel Engine by Rope Brake Dynamometer.
4. Heat Balance on 4 Stroke Diesel Engine by Rope Brake Dynamometer & by Electrical Load Box.
5. Valve Timing Diagram on 4S Diesel Engine Model & 4S Petrol Engine Model
6. To find the Calorific Value of Diesel Fuel & Coal by Bomb Calorimeter
7. To find the Flash Point & Fire Point of Petrol & Diesel Fuel
8. To find the Cloud Point & Pour Point of Petrol & Diesel Fuel
9. To find Carbon Particle Percentage in Diesel Engine Exhaust Smoke by Smokemeter and trace the BHP Vs. % Carbon Curve
10. Measurement of the Quality of Steam – Enthalpy & Dryness fraction

ELECTRIC MACHINE-IILABORATORY

PC-EEE 591

1. Different methods of starting of a 3 phase Cage Induction Motor & their comparison [DOL, Auto transformer &Star-Delta]
2. Study of equivalent circuit of three phase Induction motor by no load and blocked rotor test.
3. Study of performance of wound rotor Induction motor under load.
4. Study of performance of three phase squirrel- cage Induction motor –determination of iron-loss, friction & windage loss.
5. Speed control of 3 phase squirrel cage induction motor by different methods & their comparison [voltage control & frequency control].
6. Speed control of 3 phase slip ring Induction motor by rotor resistance control
7. Determination of regulation of Synchronous machine by a. Potier reactance method. b. Synchronous Impedance method.
8. Determination of equivalent circuit parameters of a single phase Induction motor.
9. Load test on single phase Induction motor to obtain the performance characteristics.
10. To determine the direct axis resistance [Xd] & quadrature reactance [Xq] of a 3 phase synchronous machine byslip test.
11. Load test on wound rotor Induction motor to obtain the performance characteristics.
12. To make connection diagram to full pitch & fractional slot winding of 18 slot squirrel cage Induction motor for6 poles & 4 pole operation
13. To study the performance of Induction generator
14. Parallel operation of 3 phase Synchronous generators

15. V-curve of Synchronous motor

CONTROL SYSTEMLABORATORY

PC-EEE 592

1. Familiarization with MAT-Lab control system tool box, MAT-Lab- simulink tool box & PSPICE
2. Determination of Step response for first order & Second order system with unity feedback with the help of CRO &calculation of control system specification , Time constant, % peak overshoot, settling time etc. from the response.
3. Simulation of Step response & Impulse response for type-0, type-1 & Type-2 system with unity feedback using MATLAB & PSPICE.
4. Determination of Root locus, Bode plot, Nyquist plot using MATLAB control system tool box for 2nd order system & determination of different control system specification from the plot.
5. Determination of PI, PD and PID controller action of first order simulated process.
6. Determination of approximate transfer functions experimentally from Bode plot.
7. Evaluation of steady state error, setting time , percentage peak overshoot, gain margin, phase margin with addition of Lead, Lag, Lead-lag compensator.
8. Study of a practical position control system obtaining closed step responses for gain setting corresponding to over-damped and under-damped responses. Determination of rise time and peak time using individualized components by simulation. Determination of un-damped natural frequency and damping ration from experimental data.
9. Design of Lead, Lag and Lead-Lag compensation circuit for the given plant transfer function. Analyze step response of the system by simulation.
10. Determination of Transfer Function of a given system from State Variable model and vice versa. Analysis of a physical system by State variable and to obtain step response for the system by simulation.
11. Study of State variable analysis using simulation tools. To obtain step response and initial condition response for a single input, two-output system in SV form by simulation.

POWER ELECTRONICSLABORATORY

PC-EEE 593

1. Study of the characteristics of an SCR.
2. Study of the characteristics of a Triac
3. Study of different triggering circuits of an SCR
4. Study of firing circuits suitable for triggering SCR in a single phase full controlled bridge.
5. Study of the operation of a single phase full controlled bridge converter with R and R-L load. 6. Study of performance of single phase half controlled symmetrical and asymmetrical bridge converters.
7. Study of performance of step down chopper with R and R-L load.
8. Study of performance of single phase controlled converter with and without source inductance (simulation)
9. Study of performance of step up and step down chopper with MOSFET, IGBT and GTO as switch (simulation)
10. Study of performance of single phase half controlled symmetrical and asymmetrical bridge converter.(simulation)
11. Study of performance of three phase controlled converter with R & R-L load. (simulation) 12. Study of performance of PWM bridge inverter using MOSFET as switch with R and R-L load.

ELECTRICAL AND ELECTRONICS DESIGN LABORATORY
PC-EEE 681

GROUP A
1. Designing a heating element with specified wattage, voltage and ambient temperature.
2. Designing an aircore grounding reactor with specified operating voltage, nominal current and fault current
3. Designing the power distribution system for a small township
4. Designing a double circuit transmission line for a given voltage level and power (MVA) transfer.
5. Wiring and installation design of a multistoried residential building (G+4,not less than 16 dwelling flats with a lift and common pump)

GROUP B
6. Designing an ONAN distribution transformer.
7. Designing a three phase squirrel cage induction motor.
8. Designing a three phase wound rotor induction motor.
9. Designing a split phase squirrel cage induction motor for a ceiling fan or a domestic pump
10. Designing a permanent magnet fractional hp servo motor .

GROUP C
11. Design the control circuit of a Lift mechanism
12. Design a controller for speed control of DC machine.
13. Design a controller for speed control of AC machine.
14. Electronic system design employing electronic hardware (Analog, Digital, Mixed signal), microcontrollers, CPLDs, and FPGAs, PCB design and layout leading to implementation of an application

POWER SYSTEM-II LABORATORY
PC-EEE 691

1. Study on the characteristics of on load time delay relay and off load time delay relay.
2. Test to find out polarity, ratio and magnetization characteristics of CT and PT.
3. Test to find out characteristics of (a) under voltage relay (b) earth fault relay.
4. Study on DC load flow
5. Study on AC load flow using Gauss-seidel method
6. Study on AC load flow using Newton Raphson method.
7. Study on Economic load dispatch.
8. Study of different transformer protection schemes by simulation
9. Study of different generator protection schemes by simulation
10. Study of different motor protection schemes by simulation
11. Study of different characteristics of over current relay.
12. Study of different protection scheme for feeder.

MICRO PROCESSOR AND MICRO CONTROLLER LABORATORY
PC-EEE 692

1. Programs for 16 bit arithmetic operations for 8086 (using various addressing modes)
2. Program for sorting an array for 8086
3. Program for searching for a number or character in a string for 8086
4. Program for String manipulations for 8086
5. Program for digital clock design using 8086.
6. Interfacing ADC and DAC to 8086.
7. Parallel communication between two microprocessors using 8255.
8. Serial communication between two microprocessor kits using 8251.
9. Interfacing to 8086 and programming to control stepper motor.
10. Programming using arithmetic, logical and bit manipulation instructions of 8051
11. Program and verify Timer/Counter in 8051.
12. Program and verify interrupt handling in 8051.
13. UART operation in 8051.
14. Interfacing LCD to 8051.
15. Interfacing matrix or keyboard to 8051.

16. Data transfer from peripheral to memory through DMA controller 8237/8257

DIGITAL SIGNAL PROCESSING LABORATORY
PC-EEE 891

1. Sampled sinusoidal signal, various sequences and different arithmetic operation.
2. Convolution of two sequences using graphical methods and using commands-verification of the properties of convolution.
3. Z transform of various sequences-verification of the properties of Z transform.
4. Twiddle factors-verification of the properties.
5. DFTs/IDFTs using matrix multiplication and also using commands.
6. Circular convolution of two sequences using graphical methods and using commands. Differentiation between linear and circular convolutions
7. Verification of the different algorithms associated with filtering of long data sequences and Overlap add and Overlap-save methods.
8. Butterworth filter design with different set of parameters.
9. FIR filter design using rectangular, Hamming and Blackman windows.

Hardware laboratory using either 5416 or 6713 Processor and Xilinx FPGA:

10. Writing & execution of small programs related to arithmetic operation and convolution using assembly language of TMS320C5416/6713 processor. Study of MAC instruction.
11. Writing of small programs in VHDL and downloading onto Xilinx FPGA.
12. Mapping of some DSP algorithms onto FPGA

Department of CE:

CE(ES)391 Basic Electronics

Module 1: Laboratory Sessions covering, Identification, Specifications, Testing of R, L, C Components (Colour Codes), Potentiometers, Switches (SPDT, DPDT and DIP), Bread Boards and Printed Circuit Boards (PCBs); Identification, Specifications, Testing of Active Devices – Diodes, BJTs, JFETs, MOSFETs, Power Transistors, SCRs and LEDs;

Module 2: Study and Operation of Digital Multi Meter, Function / Signal Generator, Regulated Power Supply (RPS), Cathode Ray Oscilloscopes; Amplitude, Phase and Frequency of Sinusoidal Signals using Lissajous Patterns on CRO; (CRO);

Module 3: Experimental Verification of PN Junction Diode Characteristics in A) Forward Bias B) Reverse Bias, Zener Diode Characteristics and Zener Diode as Voltage Regulator, Input and Output Characteristics of BJT in Common Emitter (CE) Configuration, Drain and Transfer Characteristics of JFET in Common Source (CS) Configuration;

Module 4: Study of Half Wave and Full Wave Rectification, Regulation with Filters, Gain and Bandwidth of BJT Common Emitter (CE) Amplifier, Gain and Bandwidth of JFET CommonSource(CS) Amplifier, Gain and Bandwidth of BJT Current Series and Voltage SeriesFeedback Amplifiers,Oscillation Frequency of BJT based RC Phase Shift, Hartley and ColpittsOscillators;
Module 5: Op-Amp Applications – Adder, Subtractor, Voltage Follower and Comparator; Op-Amp Applications – Differentiator and Integrator, Square Wave and Triangular Wave Generation, Applications of 555 Timer – Astable and Monostable Multivibrators;

Module 6: Truth Tables and Functionality of Logic Gates – NOT, OR, AND, NOR, NAND, XOR and XNOR Integrated Circuits (ICs); Truth Tables and Functionality of Flip-Flops – SR, JK and DFlip-Flop ICs; Serial-In-Serial-Out and Serial-In-Parallel-Out Shift operations using 4-bit/8-bit ShiftRegister ICs; Functionality of Up-Down / Decade Counter ICs;

CE(ES)392 Computer-aided Civil Engineering Drawing

Module 1: INTRODUCTION
Introduction to concept of drawings, Interpretation of typical drawings, Planning drawings to show information concisely and comprehensively; optimal layout of drawings and Scales; Introduction to computer aided drawing, co-ordinate systems, reference planes. Commands: Initial settings, Drawing aids, Drawing basic entities, Modify commands, Layers, Text and Dimensioning, Blocks. Drawing presentation norms and standards.

Module 2: SYMBOLS AND SIGN CONVENTIONS
Materials, Architectural, Structural, Electrical and Plumbing symbols. Rebar drawings and structural steel fabrication and connections drawing symbols, welding symbols; dimensioning standards

Module 3: MASONRY BONDS
English Bond and Flemish Bond – Corner wall and Cross walls -One brick wall and one and half brick wall

Module 4: BUILDING DRAWING
Terms, Elements of planning building drawing, Methods of making line drawing and detailed drawing. Site plan, floor plan, elevation and section drawingof small residential buildings. Foundation plan. Roof drainage plans. Depicting joinery, standardfittings & fixtures, finishes. Use of Notes to improve clarity

Module 5: PICTORIAL VIEW
Principles of isometrics and perspective drawing. Perspective viewof building. Fundamentals of Building Information Modelling (BIM)

CE(ES)393 Life Science

Module 1A: Plant Physiology
Transpiration; Mineral nutrition

Module 1B: Ecology e ms- Components, types, flow of matter and energy in an ecosystem; Community, ecology- Characteristics, frequency, life forms, and biological spectrum; Ecosystem structure- Biotic and a-biotic factors, food chain, food web, ecological pyramids;

Module 2A: Population Dynamics
Population ecology- Population characteristics, ecotypes; Population genetics- Concept of gene pool and genetic diversity in populations, polymorphism and heterogeneity;

Module 2B Environmental Management
Principles: Perspectives, concerns and management strategies; Policies and legal aspects- Environment Protection Acts and modification, International Treaties; Environmental Impact Assessment- Case studies (International Airport, thermal power plant)

Module 3A Molecular Genetics
Structures of DNA and RNA; Concept of Gene, Gene regulation, e.g., Operon concept

Module 3B Biaostic Totipotency and Cell manipulation; Plant &Animal tissue culture- Methods and uses in agriculture, medicine and health; Recombinant DNATechnology- Techniques and applications

Module 4 Biostatistics:-Terms used, types of data;Measures of Central Tendencies- Mean, Median, Mode, Normal and Skewed distributions; Analysis of Data- Hypothesis testing and ANNOVA (single factor)

Module 5 Laboratory & Field work Sessions
Comparison of stomatal index in different plants; Study of mineral crystals in plants; Determination of diversity indices in plant communities;To construct ecological pyramids of population sizes in an ecosystem; Determination of ImportanceValue Index of a species in a plant community; Seminar (with PPTs) on EIA of a Mega-Project (e.g.,Airport, Thermal/Nuclear Power Plant/ Oil spill scenario); Preparation and extraction of genomic DNA and determination of yield by UV absorbance; Isolation of Plasmid DNA and its separation byGel Electrophoresis; Data analysis using Bio-statistical tools

CE(ES)491 Fluid Mechanics Laboratory

Experiment 1 Calibration of Notches
Experiment 2 Calibration of Orifice meter
Experiment 3 Determination of Hydraulic Coefficient of an Orifice
Experiment 4 Performance Test on Centrifugal Pump
Experiment 5 Performance Test on Reciprocating Pump
Experiment 6 Determination of Minor Losses in Pipes due to Sudden Enlargement and Sudden Contraction
Experiment 7 Performance Test on Pelton Wheel Turbine
Experiment 8 Measurement of water surface profile for flow over Broad crested weir
Experiment 9 Measurement of water surface profile for a hydraulic jump

CE(ES)492 Solid Mechanics Laboratory

Experiment 1 Tension test on Structural Materials: Mild Steel and Tor steel (HYSD bars)
Experiment 2 Compression Test on Structural Materials: Timber, bricks and concrete cubes
Experiment 3 Bending Test on Mild Steel
Experiment 4 Torsion Test on Mild Steel Circular Bar
Experiment 5 Hardness Tests on Ferrous and Non-Ferrous Metals: Brinnel and Rockwell Tests
Experiment 6 Test on closely coiled helical spring
Experiment 7 Impact Test: Izod and Charpy
Experiment 8 Demonstration of Fatigue Test

CE(ES)493 Engineering Geology Laboratory

Experiment 1 Identification of minerals in hand specimen
Experiment 2 Identification of igneous rocks in hand specimen
Experiment 3 Identification of sedimentary rocks in hand specimen
Experiment 4 Identification of metamorphic rocks in hand specimen
Experiment 5 Study of crystals with the help of crystal models
Experiment 6 Study of geologic structures with the help of models

Experiment 7 Interpretation of geological maps: horizontal, vertical, uniclinal, folded and faulted structures
Experiment 8 Microscopic study of rocks and minerals

CE(PC)493 Surveying & Geomatics Laboratory

Experiment 1 Traverse survey by Prismatic Compass: Procedure; Computation and checks on closed traverse; Preparation of field book; Plotting the traverse; Sources of errors.
Experiment 2 Theodolite Survey: Closed traverse by transit theodolite, Preparation of field book
Experiment 3 Differential Levelling using Dumpy level: Collimation and Rise and Fall methods, Field book preparation
Experiment 4 Total Station Survey: Traversing and Levelling
Experiment 5 Visual Image Interpretation
Experiment 6 Satellite Image Pre-processing
Experiment 7 Digital Image Classification and Accuracy Assessment
Experiment 8 Stereoscopic fusion of aerial photographs using mirror stereoscope

CE(PC)494 Concrete Technology Laboratory

Test on Fine aggregates: Bulking, Specific gravity, Bulk Density, Percentage voids, Fineness Modulus. Grading curve.
Test on Coarse aggregates : Specific gravity, Bulk Density, Percentage voids, Fineness Modulus. Grading curve.
Test on Cement : Normal consistency, fineness, Initial setting and final setting time of cement. Specific gravity, soundness and Compressive strength of Cement.
Test on Fresh Concrete: Concrete mix design, Various workability tests – slump, compacting factor, vee-bee test.
Test on Hardened Concrete Spilt-tensile strength test, Flexure test, NDT Tests (Rebound hammer and Ultra-sonic pulse velocity), Poission ratio.

CE(PC)594Soil Mechanics Laboratory

Experiment 1 Field identification of different types of soil as per Indian Standards [collection of field samples and identifications without laboratory testing].
Experiment 2 Determination of natural moisture content.
Experiment 3 Determination of specific gravity of cohesionless and cohesive soils.
Experiment 4 Determination of in-situ density by core cutter method and sand replacement method.
Experiment 5 Determination of grain size distribution by sieve and hydrometer analysis.
Experiment 6 Determination of Atterberg limits (liquid limit, plastic limit and shrinkage limit).
Experiment 7 Determination of co-efficient of permeability by constant and variable head permeability tests.
Experiment 8 Determination of compaction characteristics of soil by standard proctor compaction test.
Experiment 9 Determination of unconfined compressive strength of soil by unconfined compression test.
Experiment 10 Determination of shear strength parameters of soil by direct shear test.
Experiment 11 Determination of undrained shear strength of soil by vane shear test.
Experiment 12 Determination of shear strength parameters of soil by unconsolidated undrained triaxial test
Experiment 13 Determination of California Bearing Ratio (CBR) of soil.
Experiment 14 Determination of relative density of soil
Experiment 15 Standard Penetration Test.

CE (PC) 595 Environmental Engineering

Experiment 1 Determination of turbidity for a given sample of water
Experiment 2 Determination of electrical conductivity for a given sample of water
Experiment 3 Determination of Total Solids, Suspended Solids, Dissolved Solids and Volatile Solids in a given sample

of water

Experiment 4 Determination of pH for a given sample of water
Experiment 5 Determination of carbonate, bi-carbonate and hydroxide alkalinity for a given sample of water
Experiment 6 Determination of acidity for a given sample of water
Experiment 7 Determination of hardness for a given sample of water
Experiment 8 Determination of concentration of Iron in a given sample of water
Experiment 9 Determination of concentration of Chlorides in a given sample of water
Experiment 10 Determination of the Optimum Alum Dose for a given sample of water through Jar Test
Experiment 11 Determination of the Chlorine Demand and Break-Point Chlorination for a given sample of water
Experiment 12 Determination of amount of Dissolved Oxygen (DO) in a given sample of water
Experiment 13 Determination of the Biochemical Oxygen Demand (BOD) for a given sample of wastewater
Experiment 14 Determination of the Chemical Oxygen Demand (COD) for a given sample of wastewater
Experiment 15 Determination of Colliform Bacteria: presumptive test, Confirmative test and Determination of MPN

CE (PC) 596 Transportation Engineering Laboratory

Experiment 2 Crushing Strength Test of aggregate
Experiment 3 Impact test of aggregate
Experiment 4 Los Angeles Abrasion test of aggregate
Experiment 5 Specific Gravity and Water Absorption test of aggregate
Experiment 6 Specific Gravity test
Experiment 7 Penetration test
Experiment 8 Static or Kinematic viscosity
Experiment 9 Softening point test
Experiment 10 Flash and Fire Point test
Experiment 11 Ductility test
Experiment 12 CBR value of sub-grade (Soaked and unsoaked)
Experiment 13 Marshall Stability test

CE (PC) 693 Water Resource Engineering Laboratory

Experiment 1 Catchment area delineation (Manually and using DEM)
Experiment 2 Calculation of average rainfall over a catchment area with arithmetic mean method, Thiessen polygon method and isohyetal method.
Experiment 3 Use of different type of Rain gauges.
Experiment 4 Measurement of infiltration rate using double ring infiltrometer.
Experiment 5 Measurement of evaporation using evaporimeter.
Experiment 6 Measurement of bright sunshine hours using sunshine recorder.

Basic Science Courses

Chemistry-ILaboratory

BS-CH191

1. Conductometric titration for determination of the strength of a given HCl solution by titration against a standard NaOH solution.
2. pH- metric titration for determination of strength of a given HCl solution against a standard NaOH solution.
3. Determination of dissolved oxygen present in a given water sample.
4. To determine chloride ion in a given water sample by Argentometric method (using chromateindicator solution)
5. Determination of surface tension and viscosity
6. Thin layer chromatography
7. Ion exchange column for removal of hardness of water
8. Determination of the rate constant of a reaction
9. Determination of cell constant and conductance of solutions
10. Potentiometry - determination of redox potentials and emfs.
11. Saponification/acid value of an oil
12. Chemical analysis of a salt
13. Determination of the partition coefficient of a substance between two immiscible liquids
14. Adsorption of acetic acid by charcoal
15. Use of the capillary viscosity meters to the demonstrate of the iso-electric point as the pH of minimum viscosity for gelatin sols and/or coagulation of the white part of egg.

Basic Electrical Engineering Laboratory

ES-EE191

1. First activity: Introduction to basic safety precautions and mentioning of the do's andDon'ts. Notingdown list of experiments to be performed, and instruction for writing the laboratoryreportsbythestudents. Group formation. Students are to be informed about the modalities of evaluation.
2. Introduction and uses of following instruments : (a) Voltmeter (b) Ammeter (c) Multimeter (d) Oscilloscope Demonstration of real life resistors, capacitors with color code , inductors and autotransformer.
3. Demonstration of cut-out sections of machines: DC machine, Induction machine, Synchronousmachine and single phase induction machine.

4. Calibration of ammeter and Wattmeter.

5. Determination of steady state and transient response of R-L, R-C and R-L-C circuit to a stepchangeinvoltage.

6. Determination of steady state response of R-L and R-C and R-L-C circuit and calculationof impedance and power factor.

7. Determination of resonance frequency and quality factor of series and parallel R-L-Circuit.

8. (a) Open circuit and short circuit test of a single-phase transformer (b) Load test of the transformer and determination of efficiency and regulation

9. Demonstration of three phase transformer connections. Voltage and current relationship, phaseshiftsbetween the primary and secondary side.

10. Measurement of power in a three phase unbalanced circuit by two wattmeter method.

11. Determination of Torque –Speed characteristics of separately excited DC motor.

12. Determination of Torque speed characteristics and observation of direction reversal by changeofphase sequence of connection of Induction motor.

13. Determination of operating characteristics of Synchronous generator.

14. Demonstration of operation of (a) DC-DC converter (b) DC-AC converter (c) DC-ACconverterforspeed control of an Induction motor

15. Demonstration of components of LT switchgear

Engineering Graphics &Design

ES-ME191

1. Introduction to engineering drawing

2. Lettering, dimensioning, scales

3. Geometrical construction and curves

4. Projection of points, lines, surfaces

5. Projection of regular solids

6. Combination of regular solids, floor plans

7. Isometric projections

8. Sections and sectional views of right angular solids

9 overview of computer graphics, customisation&cad drawing

10. Annotations, layering & other functions

11. Demonstration of a simple team design project

Physics-I Laboratory

BS-PH191

Experiments in Optics

1. Determination of dispersive power of the material of a prism
2. Determination of wavelength of a monochromatic light by Newton's ring
3. Determination of wavelength of a monochromatic light by Fresnel's bi-prism
4. Determination of wavelength of the given laser source by diffraction method

Electricity & Magnetism experiments

1. Determination of thermo electric power of a given thermocouple.
2. Determination of specific charge (e/m) of electron by J.J. Thompson's method.
3. Determination of dielectric constant of a given dielectric material.
4. Determination of Hall coefficient of a semiconductor by four probe method.
5. To study current voltage characteristics, load response, areal characteristic and spectral responseofaphotovoltaic solar cell.
6. Determination of resistance of ballistic galvanometer by half deflection method and studyofvariationof logarithmic decrement with series resistance.
7. Determination of unknown resistance using Carey Foster's bridge
8. Study of Transient Response in LR, RC and LCR circuits using experiments.
9. Generating sound from electrical energy using experiments.

Experiments in Quantum Physics

1. Determination of Stefan-Boltzmann constant.
2. Determination of Planck constant using photocell.
3. Determination of Lande-g factor using Electron spin resonance spectrometer.
4. Determination of Rydberg constant by studying Hydrogen spectrum.
5. Determination of Band gap of semiconductor.
6. To study current voltage characteristics, load response, areal characteristic and spectral response of a photovoltaic solar cell.

Miscellaneous experiments

1. Determination of Young's modulus of elasticity of the material of a bar by the method of flexure

2. Determination of bending moment and sheer force of a rectangular beam of uniformcross-section
3. Determination of modulus of rigidity of the material of a rod by static method
4. Determination of rigidity modulus of the material of a wire by dynamic method
5. To determine the moment of inertia of a body about an axis passing through its centre of gravityandto determine the modulus of rigidity of the material of the suspended wire
6. Determination of coefficient of viscosity by Poiseulle's capillary flow method

Workshop/ManufacturingPractices

ES-ME192

1. Manufacturing Methods- casting, forming, machining, joining, advanced manufacturingmethods
2. CNC machining, Additive manufacturing
3. Fitting operations & power tools
4. Electrical &Electronics
5. Carpentry
6. Plastic molding, glass cutting
7. Metal casting
8. Welding (arc welding & gas welding), brazing

Computing Facilities

- **Internet Bandwidth :** 300mbps
- **Number and configuration of System:**180
- **Total number of system connected by LAN:**180
- **Total number of system connected by WAN:**180
- **Major software packages available:** MATLAB, XYLINX, ORACLE, AUTOCADetc.
- **Special purpose facilities available:** Nil
- **Facilities for conduct of classes/courses in online mode (Theory & Practical):**YES
- **Innovation Cell:** Available
- **Social Media Cell:** Available
- ComplianceoftheNationalAcademicDepository(NAD),applicabletoPGCM/PGDM Institutions and UniversityDepartments:Avialable

- **List of facilities available**
- Games and SportsFacilities

Indoor Sports facilities	Yes
Outdoor Sports facilities	Yes
Sports activities	Yes

- Extra-Curricular Activities :Yes
- Soft Skill Development Facilities:Yes

Teaching Learning Process

- Curricula and syllabus for each of the programmes as approved by the University:http://makautexam.net/aicte_details/aicteugdetails.html
- Academic Calendar of theUniversity:https://makautwb.ac.in/page.php?id=229
- Academic Time Table with the name of the Faculty members handling the Course: Available
- Teaching Load of eachFaculty: Available
- Internal Continuous Evaluation System andplace: Available
- Student's assessment of Faculty, System inplace: Available

Special Purpose

- Software, all design tools incase
- Academic Calendar and framework

16. Enrollment of students in the last 3years:

ADMISSION STATUS IN LAST 3 YEARS				
COURSES	**Approval Intake Capacity**	**Admission in 2025**	**Admission in 2024**	**Admission in 2023**
CSE	60	05+24	20+6*	44+32*
ECE	30	0+15	0+3*	03+04*
EEE	30	0+22	0+05*	01+15*
CIVIL	60	0+37	0+19*	0+12*

*Figure indicates number of Lateral Entry students

PLACEMENT STATUS IN LAST 3 YEARS			
COURSES	**Placement in 2019**	**Placement in 2020**	**Placement in 2021**
CSE	15	22	25
ECE	5	11	03
EEE	6	15	07
CIVIL	7	11	01

17. List of Research Projects/ ConsultancyWorks

- Number of Projects carried out, funding agency,Grant received: NIL
- Publications (if any) out of research in last three years out of masters projects: NIL
- IndustryLinkage: NIL
- MoUs with Industries (minimum 3):

S.NO.	MoU with organization	Date
1.	National Institute For Industrial Training(NIIT)	13.02.2019
2.	Tata Power Skill Development Institute(TPSDI)	22.05.2019
3.	Tomorrow's Foundation	24.05.2019
4.	WEBTEK LABS PVT LTD	24.05.2019
5.	T.K. GHOSH(GOVT. CONTRACTOR)	25.05.2019
6.	OGMA-TECHLAB	25.05.2019
7.	Association Of Training & Placement Officers(ATPO-IICA)-E-MoU	01.06.2020

18. LoA and subsequent EoA till the current Academic Year Refer to the link, mentioned below, for all EoA and LoA.

http://www.pcmt-india.net/aicte.html

20. Accounted audited statement for the last three years: Refers to the Annexure-1

21. Best Practicesadopted:

- Use of learning resources, multimedia and internet resources for teaching is in place

- Student's feedback about the teachers in respect of teaching-learning process is taken and follow-on action isimplemented.
- Financialassistancetothepoorandneedystudentsismadeavailable.

- Transparency is ensured in evaluating student'sacademic performance

- WI-FICampus

- Faculty members and students are motivated to participate in National, International Conference,workshop

- Earn-while-Learn scheme is implemented for deservingcandidates.

- Mentoring: The faculty members meet the students periodically, collect the pros and cons of the method and counsel them to perform better academically. Student's personal issues are also discussed and proper guidance and support is providedtothemtoensurethecomfortofthestudentsintheInstitutecampus.

- Technical Quiz, Seminar on cutting edge technology, Workshop and hands on training on recent technology is organized on regular basis to improve student's awareness in respect of modern trends in Technology anddevelopment.

- Faculty development programme is organized on regular basis to improve human resources of ourInstitute.

- For each and every students Industry visit is organized on regular basis to make our students aware of industrial activity and to develop knowledge in practical field of Engineeringdomain.