EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT



TECHNO INTERNATIONAL NEW TOWN

Department of Basic Science & Humanities Department

<u>2021-2022</u>

A. DEPARTMENTDETAILS

Name of Department:	Basic Science and I	Humanities						
Name of Programme:	B.Tech							
Academic year	2021-22							
Student Intake	939	939						
No. of enrolled student	638							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	BS-PH101 BS-CH101 BS-M101 BS-M102 BS-PH191	BS-PH201 BS-CH201 BS-M201 BS-M202 HM-HU201 BS-PH291						
No. of Fractical classes offered	BS-CH191	BS-CH291 HM-HU291						

B. FACULTY/STAFFSTRENGTH: 32

C. STUDENT FACULTY RATIO: 20:1

D. NO. OF LABORATORIES: 6

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

PHYSICS:

Sl. No.	Lab Name	No. of accommodatio n	Equipment	Specification	Last Upgraded
1	PHYSICS LAB 1	30	Young's modulus	Determination of Young's modulus	
2	PHYSICS LAB 2	30	Young's modulus (Not Working)	Determination of Young's modulus (Not Working)	
3			Modulus of Rigidity (Statical method)	Determination of Modulus of Rigidity (Statical method)	
4			Modulus of Rigidity (Statical method) (Not working)	Determination of Modulus of Rigidity (Statical method) (Not working)	
5			Modulus of Rigidity (Dynamical method)	Determination of Modulus of Rigidity (Dynamical method)	
6			Carey-Foster's method	Carey-Foster's method	
7			Carey-Foster's method (not working)	Carey-Foster's method (not working)	
8			Band Gap of a semiconductor	Determination of Band Gap of a semiconductor	
9			Band Gap of a semiconductor (not working)	Determination of Band Gap of a semiconductor (not working)	

10	Band Gap of a semiconducto	or Determination of Band Gap of a semiconductor
11	Planck's Constant	Determination of Planck's Constant
12	Stefan's Constant	Determination of Stefan's Constant
13	Stefan's Constant (not working)	Determination of Stefan's Constant (not working)
14	Hall's Coefficient	Determination of Hall's Coefficient
15	Hall's Coefficient (not working)	Determination of Hall's Coefficient (not working)
16	Dielectric Constant of a material	Dielectric Constant of a material
17	Solar Cell	Study the characteristics of a Solar Cell
18	Solar Cell (not working)	Study the characteristics of a Solar Cell (not working)
19	Newton's ring method	Newton's ring method
20	Newton's ring method (not working)	Newton's ring method (not working)
21	LASER Diffraction method	LASER Diffraction method
22	LASER	LASER Diffraction

	Diffraction method (not working)method (not working)	
23	Dispersive power of a Prism Dispersive power of a Prism	
24	Coefficient of Viscosity (not working)Coefficient of Viscosity (not working)	
25	Ballistic Galvanometer (not working)Ballistic Galvanometer (not working)	
26	E/M by Thomson method (not working) E/M by Thomson method (not work	cing)
27	Electron Spin Resonance (not working)Electron Spin Resonance (not working)	
28	Frank-Hertz experiment Frank-Hertz experiment	
29	Frank-Hertz experiment (not working)Frank-Hertz experiment (not working)	
30	Fresnel's Biprism experiment (not working)Fresnel's Biprism experiment (not working)	
31	Thermo emf (not working) Measurement of Thermo emf (not working)	
32	Optical Fiber experiment (not working)Optical Fiber experiment (not working)	
33	Rydberg Constant (not working)Rydberg Constant (not working)	
34	Computer/ Desktop PC	

35		White Board		
36			Internet with wifi installation	2022
		Wifi router		

CHEMISTRY:

SI.	Lab Name	No. of accommodation	Equipment	Specification	Last
N0.					Upgraded
1	CHEMISTRY LAB	30	Steel Almirah	Large size iron almirah	
2	CHEMISTRY LAB 2	30	Tables with cabinet	Wooden cabinate	
3			Refrigerator	For keeping sensitive chemicals.	
4			Conductivity Meter	Determine conductance of solutions	
5			pH Meter	Determine pH of solutions	
6			Laboratory orbital shaker	Properly mixing solutions	
7			Acid Fume Chamber(Not working)	Use to keep different concentrated acid.	
8			Stop watch	For viscosity measurement purpose.	
9			Weighing machine	Use to balance different reagent.	
10			Heating mantle(Not working)	For solutions preparation.	

11		Magnetic stirrer(Not working)	For solutions preparation.	
12		Water distillation plant(Not working)	For the purpose of making distilled water	
13		Chalk board		
14		Wifi router	Internet with wifi installation	2022

ENGLISH:

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	LANGUAGE LAB 1	32	Projector with Ceiling Mount	Epson	2022
2			4 Channel Speaker	Ahuja	2022
3			Dekstop Computer	Dell	2022
4			Console system	Cacm(Integrated)	2022
5	LANGUAGE LAB 2	30	2 Channel Speaker	Ahuja	
6			Audio Amplifier	Ahuja	
7			Audio Mixer(Not installed)	Ahuja	
8			Dekstop Computers	HP	

F. DETAILS OF ICT TOOLS:

A. Course delivery through projector for Physics, Mathematics, Chemistry and English. Audio visual training imparted in Language Laboratory.

B. Use of SkillJunction software in Language Laboratory

C. With our existing infrastructure we are using internet resources for material development.

G. FACULTY DETAILS (2021 – 2022)

S.No	Name of the Faculty Member	Highest Qualification With Specialization	Experience (Years)	Roles & Responsibilities	Designation	Date of Joining
1.	Ms. TAPOSI CHATTERJEE	M.Sc	9 Years	 Faculty member of Chemistry Member of Anti-ragging Squad Coordinator of Sports Committee Member of Kanyashree Club Mentor of 1st year AIML students. Update the Leave status of Department. 	ASST PROFESSOR	7/24/2012
2.	Dr. PARTHA PRATIM CHAKRABARTY	PhD	8 Years	 Faculty member of Chemistry & Environmental Chemistry Member of Anti-ragging Squad Subject Coordinator of Departmental Academic Committee Member of Kanyashree Club Coordinator of Scintilla Exhibition Committee Nodal Officer of the College Member of Science & Tech Club Member of College IIC Cell Member of College IPR Cell Member of College Routine Committee Member of College Routine Committee 	ASST PROFESSOR	10/23/2013

3.	Ms. BARNALI DUTTA ROY	M.Sc	10 Years	 Faculty member of Chemistry Mentor of 1 st year CSE students Member of Academic Committee Subject coordinator of 	ASST PROFESSOR	7/23/2011
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				 5. Member of Scintilla exhibition committee 6. Member Exam committee 7. Member of Anti-ragging committee 8. Coordinator of student induction programme 9. Member of Kanyashree Club 10. Members NSS 		
4.	Mr. BABLU MAITY	M.Sc, M.Ed.	4 Years	 Member, NSS Faculty member of Chemistry Mentor of 1 st year ECE students Member of TINT TALKIES 	ASST PROFESSOR	3/31/2017
5.	Mr. ADITYA KUMAR SARKAR	M.Sc	1 Year	Faculty of Biology	ASST PROFESSOR	1/14/2021
6.	Mr. ABHIJIT PAYRA	M.Sc		 Faculty member of Biology Mentor of 1 st year CSE students 	ASST PROFESSOR	4/12/2022
7.	Mr. SRIJAN SENGUPTA	M.Sc, Ph.D. registered(pre submission done)	1 year	 Faculty member of Mathematics Mentor of 1st year IT students Mentoring Students to prepare them to participate in Business Idea competition and Scintilla exhibition. Develop study material in LMS portal. 	ASST PROFESSOR	1/4/2021

8.	Ms. BARNIMA GHOSAL	M.Sc. in Mathematics	6 Years	 Faculty member of Mathematics Mentor of IT 1st year students Co-convenor of TINT Hikers & Planeteers Club Member of Hridmajhare, The Club of Performing 	ASST PROFESSOR	5/8/2015
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				Arts 5. Member of Litwits, TINT Literary Club 6. Committee member of NSS Unit		
9.	Mr. SAYANTAN MAJUMDER	M.Sc in Mathematics	6 Years	 Faculty member of Mathematics. Mentor of 1 st year CSE students. Member of Routine Committee. Member of AESTHETICA – TINT Art Club. 	ASST PROFESSOR	2/1/2016
10.	Dr. SANJUKTA CHAKRABORTY	Ph.D.	5 Years	 Faculty member of Mathematics. Mentor of 1 st year ECE students. Member of Routine Committee. Member of ICC Member of Antiragging Committee Co-convenor of HRIDMAJHARE – TINT Club of Performing Arts. Member of Research and Development Committee 	ASST PROFESSOR	2/5/2017
11.	Ms. MADHURIMA DUTTA ROY	M.Sc	4 years	Faculty member of Physics & Chemistry	ASST PROFESSOR	4/13/2017

12.	Ms. PRITI MONDAL	M.Sc	8 months	Faculty member of Mathematics	ASST PROFESSOR	1/4/2021
13.	Mr. SRIJAN DATTA	M.Sc. in Applied Mathematics	8 months	 Faculty member of Mathematics. Mentor of 1st year CSBS and CSE(IoT) students. 	ASST PROFESSOR	1/4/2021
				 Member of Art Club Member of IPR Cell Member of Sports Committee 		
14.	Dr. AMALENDU SINGHA MAHAPATRA	Ph.D in Applied Mathematics	15 years	 Member of BSH Academic Committee Member of Scintilla-2022 Member of TINT Exam Cell SPOC of CA for College Code- 187 Member of Anti-ragging Committee Coordinator of TINT Sports Committee Program officer of NSS for MAKAUT Member of Cultural Committee Mentor of 1st Year B.Tech students (CS and DS) 	ASST PROFESSOR	8/9/2007

15.	Dr. PAPIYA DEBNATH	Ph.D in Applied Mathematics	15 years	 Member of BSH Academic Committee Member of Anti-ragging Committee Member of NAAC/NBA Core Committee Mentors of 1st year Students Member of TINT NSS Unit. Member, TINT Photography Club Convenor, AESTHETICA TINT ART CLUB Convenor, TINT KANYASHREE CLUB Convenor, IPR Cell 	ASSOCIATE PROFESSOR	8/22/2007
				 10. Member, IQAC 11. Member, IIC 12. Member, Incubation Cell 13. Member R & D Cell 14. Nodal Officer, IRINS INFLIBNET 15. Member, COE TINT 16. Responsible person for submit project to PRISM 17. General Co-Chair of ICDAI 2023 18. SPOC, KAPILA 		
16.	Dr. KAKALI GHOSH	Ph.D	14 years	Faculty of Mathematics	ASSOCIATE PROFESSOR	8/4/2008
17.	Dr. MALA MITRA	Ph.D	7 years	Faculty of Physics	ASSOCIATE PROFESSOR	8/6/2014

18.	Dr. ARPITA CHATTOPADHYAY	Ph.D	6 years	 Faculty member of Physics. Mentor of 1 st year IT students. Member of Routine Committee. CO-PI of West Bengal Pollution Control Board Funded Project Member of Business Incubation Cell Member of Anti-ragging Committee Member of TINT Film Club 	ASST PROFESSOR	8/3/2015
19.	Mr. Biswajit Mandal	MA	2 years	Faculty of English	ASST PROFESSOR	1/4/2019
20.	Mr. PRATAPADITYA BEJ	MSc	10 months	Faculty of Physics	ASST	1/4/2021

					PROFESSOR	
21.	Mrs. AVERI BANERJEE	M.Sc	16	 Member of BSH Academic Committee Coordinator of Scintilla-2022 Member of TINT Exam Cell SPOC MAR for College Code- 187 Chairperson of Anti-ragging Squad Member of TINT Photography Club Member of TINT Art Club Member of Cultural Committee 	ASST PROFESSOR	8/19/2005

22.	Dr ANINDITA RAY	Ph.D	12 years	 Faculty of Physics in BSH, Mentor of ECE, Convenor, TINT Photography Club, Co-convenor, TINT Art Club (Aethetica) Member, NSS Antiragging Commitee Internal Compliance Committee Department Academic Committee 	ASST PROFESSOR	9/1/2009
23.	Dr. SUMMAULI PYNE	Ph.D.	7 years	Faculty of Management	PROFESSOR	3/11/2015
24.	Ms. RANJINEE BASU	MA	4 years	Faculty of English	ASST PROFESSOR	9/11/2017
25.	Mr. SOHAM MUKHERJEE	MA	4 years	Faculty of English	ASST PROFESSOR	9/9/2017
26.	Ms. MILI ROY	MA	3 years	Faculty of English	ASST PROFESSOR	1/4/2019
27.	Ms. ISHA TYAGI	MA		Faculty of English	ASST PROFESSOR	3/17/2022

28.	Dr. SAYANTIKA BOSE CHAKRABORTY	PhD	17 years	 Academic Coordinator, TINT Convenor, Anti-Ragging Committee Convenor, Internal Complaint Committee Convenor, LITWITS – TINT Literary Club Member, Grievance Redressal Committee Co-Convenor, social media Cell Member, NISP, TINT 	ASSOCIATE PROFESSOR	8/17/2005
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29.	Dr. ANWESHA DUTTA AIN	PhD	14 years	 Member of IQAC Co-coordinator of Disciplinary Committee Departmental Representative of Routine Committee Member of NAAC/NBA Core Committee Convenor of Departmental Academic Committee Convenor of Departmental Academic Committee Convenor of TINT Talkies- Film & Drama Club Co-convenor of Hridmajhare Club of Performing Arts Member of Litwits Literary Club Member of TINT Hikers & Planeteers Club Lead Role in Promotional Activities done by BSH Dept. Mentor of B.Tech. 1st year students 	ASST PROFESSOR	7/28/2008
30.	Dr. KASHMI MONDAL	PhD	2years	 Paculty member of English Member of LITWITS, 	ASST PROFESSOR	8/14/2019

				 HridMajhare Performing Arts club, Aesthetica Art Club. 3. Member of Anti-ragging committee 4. Coordinator of Foreign Languages at TINT 5. Member of Kanyashree Club 		
31.	Mr. BISWADEEP BANERJEE	MBA(Finance), M.Com, M.A(Eco), PGDEAS, CSM, ,PhD Enrolled	6 Years	 Faculty of Management Mentor of AIML 1st year 	ASST PROFESSOR	1/22/2016

32. Mr. SUBIR KUMAR LAHIRI MBA 3	9 Years	Faculty of Management	ASST PROFESSOR	7/10/2018
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H. CHOICE BASED ELECTIVE COURSE -NA

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students

I. COURSE DELIVERY:

	Fro	From Core Dept			From Other Dept			r	To Other Dept			
Year/Semester (Theory & Labs)	No of). No. f of	Credits		No. of Facult	No. of Cours	Credits		No. of	No. of	Cred its	
	Fac Ity	cu Cour y ses			У	es			Facu lty	Cour ses		

I	BS-M101 (CSE,IT,AIML,CSBS,IOT,DS,CS,C YS)	4	1	4	ES- EE10 1	2	1	4	MCAN-104	2	1	4
	BS-M102 (ECE, AEIE, CE, ME, EE)	5	1	4	ES- EE19 1	2	1	1	EMM101(Advanced Engineering Mathematics)	2	1	4
	BS-PH101(CS)	4	1	4					MCAN-190(ENG)	1	1	3
	BS-PH101(CE)	3	1	4								
	BS-PH101(ME)	3	1	4								
	BS-PH101(IT)	4	1	4								
	BS-PH101(CSBS)	3	1	4								
	BS-PH101(AIML)	2	1	4								
	BS-PH191(CS)	2	1	1.5								
	BS-PH191(CE)	2	1	1.5								
	BS-PH191(ME)	2	1	1.5								

BS-PH191(IT)	4	1	1.5				
BS-PH191(CSBS)	1	1	1.5				
BS-PH191(AIML)	2	1	1.5				
BS-CH101(ECE,EE,AEIE)	4	1	4				

	BS-CH191(ECE,EE,AEIE)	4	1	1.5								
	TP-E101(ALL)	4	1	0								
Π	BS-M201 (CSE,IT,AIML,CSBS,IOT,DS,CYS)	4	1	4	ES - CS 20 1	2	1	3	MCAN- E205A(Numerical and Statistical Analysis)/MCAN- E205C(Probability and Statistics)	0	1	4
	BS-M202 (ECE,EE,CE,ME,AEIE)	5	1	4	ES - CS 29 1	2	1	2	TP-E201 MCA(ENG)	2	1	0
	BS- CH201(CS,IT,CE,ME)(CS,IT,CE,M E,CSBS, IOT,DS,CYS,AIML)	5	1 each	4	ES - M E2 91	2	1	3				

	BS-PH291(EE)	3	1	1.5						
	BS-PH291(AEIE)	3	1	1.5						
	BS-CH291(CS,IT,CE,ME,CSBS, IOT,DS,CYS,AIML)	5	1	1.5						
	HM-HU201(ALL)	6	1	2						
	HM-HU291(ALL)	8	1	1						
III							MCES 301(ECE)	3	1	0
							MCAN-E-105A	2	1	3
							TP-E-301 (ECE,ME,AEIE,EE,C SE,IT,CSBS)	4	1	0
							CE(HS)301 CE	1	1	3

BS-PH201(ECE,EE,AEIE)	3	1	4	ES - M E2 92	2	1	3		
BS-PH201(ECE)	3	1	4						
BS-PH201(EE)	3	1	4						
BS-PH201(AEIE)	3	1	4						
BS-PH291(ECE)	3	1	1.5						

					CE (BS)301 BIO	2	1	3
					CE(ES)393 BIO	2	1	2
					BS 301 EE BIO	2	1	3
					BS-BIO301	2	1	3
					BSM 301 EE	2	1	4
					PC CS391 EE	4	1	4
					BSM 301AEIE	2	1	4
			1					1
					BSM 301 ECE	1	1	4
					BSM 301 ME	2	1	4
					CE BS302 CE	1	1	2
					BSC 301 (CSE, IT)	3	1	4
					PCC CSBS302	1	1	4
					HSMC 301 (CSE,IT,CSBS)	2	1	3
IV					MC401(CSE,IT)	3	1	2
					MC(EE)401	2	1	0

				ME(MC)481(ME)	2	1	0
				TP-E-401 (CSE,IT,CSBS,EE,CE, ME)	6	1	0
				HS(HU)481 ECE	3	1	3
				HM(HU)481 AEIE	1	1	3
				PCC CS401 (CSE, IT)	5	1	3
				BSM401 ECE	2	1	4
				BSM CS491 ECE	6	1	2

				BSC 401 CSE (BIO)	2	1	3
				BSC 401 IT (BIO)	2	1	3
				BS-B401 ECE(BIO)	2	1	3
				BS-BIO401 AEIE 19- 20	2	1	3
				BSC 401 CSBS (BIO) 20-21	2	1	3
				BSC 401 AIML (BIO) 21-22	2	1	3
				HMEE 401 EE	2	1	3
				HSMHU 401 AEIE	2	1	2

					HSMC-401	2	1	3
					CSBS			
V					TP-E-501	5	1	0
					(CSE,IT,AEIE,EE,CE)			
					HM(HU)501 ME	3	1	3
					OE(EC)506A(ECE)	2	1	3
					MC(HU)581 (ECE)	2	1	3
					HSMC-501	2	1	3
					CSE,IT			
VI					HSHU-601 ECE	2	1	3
					HMEE 601 EE	2	1	3
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					HMHU 601 AEIE	2	1	3
					TP-E-	6	1	0
					601(CSE,IT,ECE,EE,			
					AEIE,ME)			
					OEC(IT) 601A (CSE,	5	1	4
		ļ			IT)			
					OE (CE) 601A	2	1	3

						2	1	
VII					HSHU-701	2	1	2
					ECE			
					HMEE 701	2	1	2
					EE			
					CE OE 701C	2	1	2
					CE			
					HSMC 701	2	1	3
					CSE IT			1

					HMHU 701 ME	2	1	2
					OEC IT701A (IT)	2	1	3
VIII					HMHU 801 AEIE	2	1	2
					CSHS 801A CE	2	1	2

J. WORKLOAD DETAILS: (2021 – 2022) Odd Sem

S.No	Name of the Faculty Member	Name(s) of the	No. Cou	. of rses	5		No. Per	Of iod	5		Work Load		Comp Status	letion S	
		Theory/Lab	Т	Р	5	5	Т		Р	S					
1.	Ms. TAPOSI CHATTERJEE	BSCH101,MC AME105A	2		0	0	(5	0	0		6		Complet	ed
2.	Dr. PARTHA PRATIM CHAKRABART Y	BSCH101,BSC H191,MC381	1		1	1	2	1	6	2		12	2	Complet	ed
3.	Ms. BARNALI DUTTA ROY	BSCH101,MC ES301,MCAN E105A	3		0	0	8	3	0	0		8		Complet	ed
4.	Mr. BABLU MAITY	BSCH101,MC 381,BSCH191	1		1	1	4	5	6	2		13	3	Complet	ed
5.	Dr. MALA MITRA	-	-		-	-	-	-	-	-		-		-	
6.	Dr. ARPITA CHATTOPADH YAY	BS PH 101, BS PH 191	1		1	0	1	3	12	0		25	5	Complet	ed
7.	Mr. PRATAPADITY A BEJ	BS PH 101, BS PH 191	1		1	0	4	5	18	0		23	3	Complet	ed
8.	Mrs. AVERI BANERJEE	BS PH 101, BS PH 191,	1		1	0	10		6	 0		16	5	Complet	ed
9.	Ms. ANINDITA RAY	BS PH 101, BS PH 191	1		1	0	1	0	6	0		16)	Complet	ed
10.	Ms. MILI ROY	TPE101	1		0	0	4	1	0	0		4		Complet	ed

11.	Dr. SAYANTIKA BOSE CHAKRABORT Y	TPE101, TPE301, TPE501	3	0	0	15	0	0	15	Complete
12.	T Dr. ANWESHA DUTTA AIN	PE301, ACAN190, PE101,TPE5 01	3	1	0	16	4	0	20	Complete
13.	Dr. KASHMI MONDAL	TPE 101,TPE 301,HMHU50 1, CSHS301, OEEC506A	5	0	0	23	0	0	23	Complete
14.	Mr. ADITYA KUMAR SARKAR	BSEE301BS- BIO301,CSBS 301,CE(ES393)	03	01	0	09	03	0	12	Completed
15.	Mr. BISWADEEP BANERJEE	EMM301,HS MC301,HSMC 701,HSMC501 ,HU701B	05	0	0	47	0	0	47	Completed
16.	Mr. SUBIR KUMAR LAHIRI	HSMC301, CEOE701C,H SHU701,MC5 01	03	0	1	19	0	1	19	Completed
17.	Mr. SRIJAN SENGUPTA	BSM101 BSM301 MCAN104	3	0	0	13	0	0	20	Completed
18.	Ms. BARNIMA GHOSAL	BSM101 PCCCSBS302 BSM301	3	0	0	14	0	0	14	Completed

19.	Mr. SAYANTAN MAJUMDER	BSM101 BSM301 EMM101	3	0	0	18	0	0	20	Completed
20.	Dr. SANJUKTA CHAKRABORT Y	BSM102, BSM301, CE(BS)302	3	0	0	15	0	0	15	Completed
21.	Ms. MADHURIMA DUTTA ROY	-	-	-	-	-	-	-	-	-
22.	MR. BISWAJIT MANDAL	TP E101	1	0	0	6	0	0	6	Completed
23.	Dr. SUMMAULI PYNE	HSMC301	1	0	0	2	0	0	2	Completed
24.	Ms. PRITI MONDAL	BSM102 (7)	1	0		4	0	0	4	Completed
25.	Mr. SRIJAN DATTA	BSM101,BSC3 01, OECIT701A, BSM301, MCANE305E	5	0	0	22	0	0	22	Completed
26.	Dr. AMALENDU SINGHA MAHAPATRA	BSM102,PEC(IT)701, BSC301, MCAN104' PCCS391	4	1	0	15	2	0	17	Completed

27.	Dr. PAPIYA DEBNATH	BSM102 (6) BSM301 (2) BSC301 (8) PCCS391 (2)	3	1		14	2		16	Completed
28.	Dr. KAKALI GHOSH	BSM102 (6) BSC301 (4)	2	0	0	11	0	0	11	Completed
29.	Mr. SOHAM MUKHERJEE	TPE101, TPE301,TPE5 02	3	0	0	16	0		16	Completed
30.	Ms. RANJINEE BASU	TPE501, TPE301	2	0	0	9	0	0	9	Completed

WORKLOAD DETAILS: (2021 – 2022) Even Sem

S.N	Name of the Faculty Member	Name(s) of the Theory/Lab	N Co	o. of ourses		No. C Perio)f ds		Wor k Load	Comp letion Status
0		v	Т	Р	S	Т	Р	S		
1.	Ms. TAPOSI CHATTERJEE	BSCH201,MC40 1,BSCH291	2	1		10	9		19	Completed
2.	Dr. PARTHA PRATIM CHAKRABARTY	BSCH201,MC40 1,BSCH291,MC EE401	2	1	1	5	6	2	13	Completed
3.	Ms. BARNALI DUTTA ROY	BSCH201,MC40 1,BSCH291,MC EE401	2	1	1	7	9	1	17	Completed
4.	Mr. BABLU MAITY	BSCH201,MC48 1,BSCH291	1	1	1	11	15	2	28	Completed
5.	Dr. MALA MITRA	-	-	-	-	-	-	-	-	-
6.	Dr. ARPITA CHATTOPADHYAY	BS PH 201,	1	0	0	6	3		3	Completed
7.	Mr. PRATAPADITYA BEJ	-	-	-	-	-	-	-	-	-
8.	Mrs. AVERI BANERJEE	BS PH 201, BS CH 201,BSPH291,B SCH291	2	2	0	8	12	0	20	Completed
9.	Ms. ANINDITA RAY	BS PH 201, BS CH 201,BSPH291	2	1		7	9		16	Completed
10.	Ms. MILI ROY	HMHU201, HMHU291	1	1	0	2	18	0	20	Completed
11.	Ms. ISHA TYAGI	-	-	-	-	-	-	-	-	-

	D. CAVANTIKA DOCE	HMHU201,TPE			0			0	17	Completed
12.	CHAKRABORTY	401,TPE601,HS HU481	3	1		12	5			
13.	Dr. ANWESHA DUTTA AIN	HMHU201,TPE 401,HMHU481, TPE601	3	1	0	14	7	0	21	Completed
14.	Dr. KASHMI MONDAL	HMHU201,TPE 601,TPE401 HMHU291	3	1	0	12	8	0	20	Completed
15.	Mr. ADITYA KUMAR SARKAR	BS BIO- 401,BSB401,BS C401	3	0	0	24	0	0	24	Completed
16.	Mr. ABHIJIT PAYRA	BSC 401	1	0	0	3	0	0	3	Completed
17.	Mr. BISWADEEP BANERJEE	HSHU601,HMEE6 01,HMHU601,HM EE401,HMHU401, HU801B,HSHU60 1,HSMC401,MCES 601	7	0	1	26	0	1	27	Completed
18.	Mr. SUBIR KUMAR LAHIRI	HMHU601,HM HU801,HMEE40 1,CEMC401	3	1	0	05	1		6	Completed
19.	Mr. SRIJAN SENGUPTA	BSM201 , PCC CS401	2	0	0	13	0	0	13	Completed
20.	Ms. BARNIMA GHOSAL	BSM201 PCC CS401 BSMCS491	2	1	0	9	3		12	Completed
21.	Mr. SAYANTAN MAJUMDER	BSM201 BSMCS491 (4)	1	1	0	6	6	0	12	Completed
22.	Dr. SANJUKTA CHAKRABORTY	BSM202 BSM401 OECIT601A	3	1	0	10	6	0	16	Completed

		BSMCS491 (4))								
23.	Ms. MADHURIMA DUTTA ROY	-	-	-		-	-	-	-	-
24.	Mr. Biswajit Mandal	HMHU291	12	0	0	12	0	0	12	Completed
25.	Ms. PRITI MONDAL	BSM202, OECIT601A	2	0	0	11	0	0	11	Completed
26.	Mr. SRIJAN DATTA	BSM201 PCC CS401	2	0	0	15	0	0	15	Completed
27.	Dr. AMALENDU Singha MAHAPATRA	BSM202 OECIT601A PCC CS401 BSMCS491 (4)	3	1	0	14	6		20	Completed
28.	Dr. PAPIYA DEBNATH	BSM202 BSM401 OECIT601A BSMCS491	3	1	0	17	3	0	20	Completed
29.	Dr. KAKALI GHOSH	BSM202 OECIT601A BSMCS491 (4)	2	1	0	7	3	0	10	Completed
30.	Mr. SOHAM MUKHERJEE	TPE201, TPE401,TPE601	3	0	0	30	0	0	30	Completed
31.	Ms. RANJINEE BASU	TPE201, TPE401	2	0	0	1	0	0	1	Completed
32.	Dr. SUMMAULI PYNE	-	-		-	-	-	-	-	-

J. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

Semester		II	III	IV	V	VI	VII	VIII	TOTAL
No. of course lesson plans	3	2	8	3		1			
prepared									
No. of courses for which course									
lesson plans are not prepared									
No. of courses verified by internal									
verifier (Senior Faculty/HOD)									
No. of courses for which the									
Lesson Plans are modified after									
Verification									
No. of courses not verified									

K. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not?

Note: Check Mentor books for Auditing

Academic Year: 2021-22 Remarks

SL. No	Dept.	Name of the Mentor	Roll No	No of Mentees	No of mentoring	Remarks
					sessions	
	AEIE	Prof. Amalendu	18705521001-020	17	10	All students were found to be
		Singha Mahapatra				in good mental health
1						
	CSE	Prof. Averi Banerjee	18700121001-35	35	10	1 case of inattentiveness been
						taken care of.
2						1 slow learner was observed
	CSE	Prof. Kakali Ghosh	18700121036-70	35	7	All students were found to be
3						in good mental health
	CSE	Prof. Barnali Dutta	18700121071-110	40	8	All students were found to be
4		Roy				in good mental health

	CSE	Prof. Sayantan	18700121111-146	36	8	All students were found to be
5		Majumder				in good mental health
	CSE	Prof. Kashmi	18700121147-182	36	9	All students were found to be
6		Mondal				in good mental health
	CSE	Prof. Aditya Kumar	18700121183-211	29	7	All students were found to be
7		Sarkar				in good mental health
	CSBS	Prof. Srijan Datta	18700121127-142	16	8	All students were found to be
8						in good mental health
	CSBS	Subir Kumar Lahiri	18700121143-157	15	7	All students were found to be
9						in good mental health
	CE	Prof. Papiya	18701321001-008	8	10	All students were found to be
10		Debnath				in good mental health
10	FOF		10700221001 10	10	0	
	ECE	Prof. Partna Pratim	18/00321001-18	18	9	All students were found to be
11		Chakrabarty				In good mental health, Except
	ECE	Sohom Mukheriee	18700321019-38	19	8	All students were found to be
12			10/0021019 50	17	Ũ	in good mental health
	ECE	Prof. Sanjukta	18700321039-57	19	9	All students were found to be
		Chakraborty		-		in good mental health, Except
13						Two
	ECE	Pratapditya Bej	18700321058-76	19	8	All students were found to be
14						in good mental health
	ECE	Isha Tyagi	18700321077-93	17	9	All students were found to be
15						in good mental health
	EE	Prof. Bablu Maity	18701621001-15	15	8	All students were found to be
						in good mental health, Except
16						One
	EE	Prof. Anwesha	18700321016-30	15	9	All students were found to be
17		Dutta Ain				in good mental health
	EE	Prof.(Dr)Mala Mitra	18700321031-45	15	9	All students were found to be
18						in good mental health

19	EE	Abhijit Payra	18700321046-63	18	8	All students were found to be in good mental health
20	ME	Prof. Anindita Ray	18700321094-119	25	7	All students were found to be in good mental health
21	ME	Prof.Papiya Debnath	18700721002-017	16	9	All students were found to be in good mental health, Except Two
22	IT	Prof. Barnima Ghosal	18700221001-20	20	9	All students were found to be in good mental health
23	IT	Summauli Pyne	18700221021-40	20	7	All students were found to be in good mental health, Except Two
24	IT	Prof. Arpita Chattopadhyay	1870022141-60	20	8	All students were found to be in good mental health
25	IT	Ranjinee Basu	18700221061-80	20	7	All students were found to be in good mental health, Except Two
26	IT	Prof. Priti Mondal	18700221081-100	20	8	All students were found to be in good mental health
27	IT	Prof. Srijan Sengupta	18700221101-119	19	9	All students were found to be in good mental health
28	CSBS	Madhurima dutta roy	18731121001-15	15	8	All students were found to be in good mental health
29	CSBS	Prof. Sayantika Bose Chakraborty	1873112116-30	15	10	All students were found to be in good mental health
30	AIML	Prof. Taposi Chatterjee	18730621001-15	15	8	All students were found to be in good mental health, Except Two
31	AIML	Mili Roy	18730621016-30	15	8	All students were found to be in good mental health, Except Two
32	AIML	Prof. Biswadeep Banerjee	18730621031-46	15	6	All students were found to be in good mental health

	AIML	Biswajit Mondal	18730621047-57	11	6	All students were found to be
						in good mental health, Except
33						Two

L. DETAILES OF NON-ACADEMIC RESPOSIBILITY

Faculty Name	Cell/ Committee/ Club
Ms. TAPOSI CHATTERJEE	Member Antiragging Squad, Convenor Sports Committee, Member NSS unit
Dr. PARTHA PRATIM CHAKRABARTY	Member Kanyasri Club, Member Genesis -Science and Tech Club, Member Antiragging Squad, Member BSH Academic Committee, Member IPR cell, Member IIC cell, Coordinator Scintilla Committee, Member BSH Academic Committee
Ms. BARNALI DUTTA ROY	Member Academic Committee 2) Member Anti ragging committee 3) Member Kanyasri Club 4) Member NSS unit 5) Member Scintilla Committee
Mr. BABLU MAITY	Member TINT-TALKIES (Film and Drama Club of TINT)
Ms. BARNIMA GHOSAL	Co-convenor TINT Hikers & Planeteers Club, 2) Member Hridmajhare, The Club of Performing Arts of TINT, 3) Member Litwits-TINT Literary Club
Mr. SAYANTAN MAJUMDER	Member of Routine Committee. Member of AESTHETICA – TINT Art Club.
Dr. SANJUKTA CHAKRABORTY	1) Member Hridmajhare, The Club of Performing Arts of TINT,2) Member Antiragging committee, 3) Member ICC 4) Member Research and Development committee 5) Member of Routine Committee.
Mr. SRIJAN DATTA	1. Member IPR Cell. 2 Member TINT Art Club (Aesthetica)
Dr. AMALENDU SINGHA MAHAPATRA	Convenor Sport Committee 2. Member Anti Ragging Committee 3. Member Exam Cell 4. Member NSS Unit 5. Member BSH Academic Committee 6. Member of Cultural Committee
Dr. PAPIYA DEBNATH	Member IQAC Cell, Member Anti Ragging Committee, Convenor IPR Cell, Member IIC cell, Member R& D cell, Member TINT Photography Club, Convenor TINT Art Club (Aesthetica), Convenor Kanyasri Club, Convenor NSS unit, Member Departmental Academic Committee

Dr. KAKALI GHOSH	Head Of The Deapartment (BSH), Member Anti Ragging Committee, Member Hridmajhare, The Club of Performing Arts of TINT, Co-convenor TINT Talkies-film and drama club, Member NSS Unit, Member Kanyasri Club, Member BSH Academic Committee, Member Entrepreneur Cell, Member Exam Cell
Dr. ARPITA	Member Anti Ragging Committee, Member BSH Academic Committee, Member Routine Committee,
CHATTOPADHYAY	Member TINT Talkies film and drama club
Mrs. AVERI BANERJEE	BSH Academic Committee, Coordinator of Scintilla-2022, Member of TINT Exam Cell, Chairperson of Anti-ragging Squad, Member of TINT Photography Club, Member of TINT Art Club, Member of Cultural Committee
Dr. ANINDITA RAY	Convenor TINT Photography Club, Co-convenor TINT Art Club (Aethetica), Member NSS unit, Member Antiragging Committee, Member Internal Compliance Committee, Member Department Academic Committee
Dr. SUMMAULI PYNE	Involved in Entrepreneurship development & Academic planning
Dr. SAYANTIKA BOSE CHAKRABORTY	Convenor Internal Complaint Committee, Convenor Anti Ragging Committee, Academic Coordinator, Member Grievance Redressal Committee, Member National Innovation and Startup Policy Committee, Member NIRF & ARIIA Committee, Convenor Litwits-TINT Literary Club
Dr. ANWESHA DUTTA AIN	Member IQAC, Co-coordinator Disciplinary Committee, Departmental representative Routine Committee, Member NAAC-NBA core committee, Convenor Departmental Academic committee, Convenor TINT Talkies film and drama club, Co-convenor Hridmajahre- performing art club, Member Litwits-literary club, Member TINT Hikers & Planeteers Club
Dr. KASHMI MONDAL	Member of Litwits-TINT Literary Club, Member HridMajhare Performing Arts club, Aesthetica Art Club, Member of Anti-ragging committee, Member of Kanyashree Club
Mr. BISWADEEP BANERJEE	Member NSS Unit, Involved in entrepreneurship development and
MR. SRIJAN SENGUPTA	Involved in entrepreneurship development
MR. ABHIJIT PAYRA	Involved in entrepreneurship development
MS. ISHA TYAGI	Involved in entrepreneurship development and Research initiatives
MS. RANJINEE BASU	Involved in Research initiatives
MS. MADHURIMA DUTTA ROY	Involved in Entrepreneurship development
MS. MILI ROY	Involved in Entrepreneurship development & Academic planning
MR. BISWAJIT MANDAL	Involved in Entrepreneurship development & Academic planning
DR. MALA MITRA	Involved in Entrepreneurship development

MR. SUBIR KUMAR LAHIRI	Involved in Research initiatives
MR. ADITYA KUMAR Sarkar	Involved in Entrepreneurship development
MS. PRITI MONDAL	Involved in Entrepreneurship development
MR. PRATAPADITYA BEJ	Involved in Entrepreneurship development & Academic planning
MR. SOHAM MUKHERJEE	Involved in Entrepreneurship development & Academic planning

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/National/State/University/Inter College/ Intra College	Total no of participation
Expert Talk(4)	Stress relief management	1 Hr.	Intra College	314

	Cyber Security	1 Hr.	Intra College	282
	Industry Talk	1 Hr.	Intra College	302
	Resourse person from Industry	1 Hr.	Intra College	315
	Motivational Talk	1 Hr.	Intra College	313
FDP	0	0	0	0
Seminar	0	0	0	0
Workshop	0	0	0	0
Conference	0	0	0	0
O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/National/State/University/Inter College/ Intra College	Total no of participation
Expert Talk				
FDP(24)	Innovation in Computing and Information Technology FDP online Courses at AMITY University Uttar Pradesh, Noida	3 Days	University	
	Department of Mathematics, Techno India University, West Bengal in association with the	2 days	University	

Office of International Programs, Techno India Group.			
On emerging trends in applied mathematics by AICTE training and learning academy	5 days	National	

Computational mathematics and artificiL Intelligence by AICTE training and learning academy	5 days	National	
FDP on Green technology and waste management : the era of advance manufacturing and circular economy	5 days	International	
FDP on "Inculcating Universal Human Values in Technical Education" sponsored by AICTE	5 days	University	
FDP on Professional Etiquette by IEM University	5 days	University	
FDP on Green technology and waste management : the era	5 days	International	
of advance manufacturing and circular economy			

-	"An International Level Lecture series on Wavelet	4 days	International	
	Transforms And			
	Image Processing"			
	;organized by Post			
	Graduate Department			
	of Mathematics Al			
	Ameen College,			
	Edathala-683564			
	Affiliated to Mahatma			
	Gandhi University,			
	NAAC Accredited			
_	with A Grade (3.15)			
	One week faculty	7 days	International	
	development program	-		
	on Computing with			
	MATLAB and LaTeX			
	Scinetific			
_	documentation during.			
	National Symposium	1 days	National	
	on Mathematics and	-		
	Applications (NSMA			
_	2021)			
	AICTE Teaching and	5 days	University	
	Learning Academy	-		
	(ATAL) organized 5			
	days online			
	elementary Faculty			
	Development			
-	Programme on			
	'Strategic			
	Management Issues in			
	Technical Institutions'			

One week Faculty Development Programme on 'Computing with MATLAB & LATEX Software: Indispensable Tools	7 days	University	
for Researchers' 6 days online Faculty Development Programme on 'Research Methodology and Online Teaching' organized by E&ICT Academy IIT Guwahati	6 days	University	
FDP on the theme "Inculcating Universal Human Values in Technical Education"	5 days	University	
One Week Faculty Development Programme through ICT Mode on Introduction to Image Processing	5 days	National	
5-day FDP on Recent Trends in Artificial Intelligence and Machine Learning for	5 days	National	
 Smart Computing Coursera: AI For Everyone	1 days	National	

	Coursera: Machine	1 days	National	
	Learning: Clustering	U U		
	& Retrieval			
	Coursera: Machine	1 days	National	
	Learning:			
	Classification			
	" 5-Day Faculty		National	
	Development			
	Programme on			
	Applied Mathematical			
	Skills for Science and			
	Engineering Using			
	Contemporary Tools "	5 days		
	5 days International		National	
	FDP on LabVIEW &			
	Real-Time Data			
	Acquisition	5 days		
	FDP "RECENT		National	
	TRENDS IN			
	TECNOLOGY AND	2 dava		
	TEACHING	5 days		
	LEARNING			
	METHODOLOGY"			
	One week Online		National	
	Faculty Development			
	Program on "Startup			
	and Innovation"			
	organized by SSIP			
	CELL, Government			
	Engineering College			
	Patan	4 days		
Seminar(24)	MAKAUT TALK	1 day	University	

SHOW: ATART UP		
WITHOUT FEAR S1		
E3		

"ENVIRONMENTAL JUSTICE-IS IT A DOOMED INDIAN FANTASY?" Series-I	1 day	National
Design Thinking and Innovation	1 day	National
Socio-Environmental Concepts and Concerns(Session-1)	1 day	National
Online Celebration of Gandhi Jayanti	1 day	National
Online Teaching and Learning" with Professor Peter Jones	1 day	National
Virtual HR Conclave	1 day	National
Dream Big!! Think Civil Services!!	1 day	National
Live Interactive Session on - Applied Statistics & Applied Mathematics	1 day	National
GREAT ICONS- A LECTURE SERIES BY DR. SANKAR NATH(Season-2 Episode-3) "Rastraguru Surendranath Banerjea"	1 day	National
CELEBRATING	1 day	National
NATIONAL STATISTICS DAY: BIRTH ANNIVERSARY OF P.C. MAHALANOBIS		

"SORROW- DEPRESSION- JOY(Season-2 Episode-2)"	1 day	National	
MAKAUT TALK SHOW: ATART UP WITHOUT FEAR S1 E2	1 day	University	
"Innovation and Entrepreneurship"	1 day	National	
"KEY TO ACHIEVING BLISS Session-11"	1 day	National	
"KEY TO ACHIEVING BLISS Session-10"	1 day	National	
"SPARK of Innovation: Felicitation of Ideators" In Conversation with students who dared to think differently	1 day	National	
"KEY TO ACHIEVING BLISS Session-8"	1 day	National	
MAKAUT TALK	1 day	University	
SHOW: ATART UP WITHOUT FEAR S1 E3			
"Entrepreneurship- Engaging with freedom"	1 day	National	

	"KEY TO ACHIEVING BLISS Session-8"	1 day	National	
	NAAC sponsored one day national seminar on 'Ensuring the Quality of Education in HEIs concerning NEP 2020 of India – The Role of IQAC'	1 day	National	
	One day national seminar titled 'Challenges and Prospects of Habitat and Biodiversity Conservation', -an initiative dedicated to the World Environment Day	1 day	National	
	International Webinar on Intelligent Optimization Techniques and Their real life applications	3 days	International	
Workshop(4)	One Week Virtual Industrial Workshop on Data Science with Python	7 days	National	

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A Comparative Study on the Choice of most relevant Carbon Footprint Calculator for India in Journal of the Institution of Public Health Engineers, India	1 day	International	
Modeling and analysis of a predator-prey model with disease in both population	1 day	International	

P. ACHIEVEMENTS OF THE STUDENTS/FACUTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES

SI. No.	Event Description	Organised by	Student Name	Faculty Name	International/National/State/University/Inter College/ Intra College
1.	Dramma- Ekushe staged in SNU theater festival	SNU	Parthib Bannerejjee, Sriparna Pandey, Samantak Ghosh, Snehasish Konger, Pritam Gayn, SWayan Ghosh , Sayan Mukherjee, Kunal	Anwesha Dutta Ain	University Level

-			
	Goswami,		
	Sayn Pal,		
	Abhirup		
	Bhattyacharya,		
	Priyanshu Dey,		
	Debanjan Pal,		
	Aniruddha		
	Chowdhury,		
	Basudha		
	Lahiri,		
	Siddhartha		
	Pal,		
	Soumyajeet		
	Pal, Abhipsit		
	Bhattacharya,		
	Arpan		
	Chatterjee,		
	Abhipsa		
	Chakraborty,		
	Smritilata		
	Sarkar		

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION: R. NO. OF STUDENTS PLACED

S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Dr. Mala Mitra	Mentor
2	Dr. Kakali Ghosh	HOD, BSH
3	Dr. Sayantika Bose Chakraborty	Assistant Professor

4	Dr. Amalendu Singha Mahapatra	Assistant Professor
5	Dr. Arpita Chattopadhyay	Assistant Professor
6	Prof. Averi Banerjee	Assistant Professor
7	Dr. Papiya Debnath	Assistant Professor
8	Dr. Partha Pratim Chakrabarty	Assistant Professor
9	Prof. Barnali Dutta Roy	Assistant Professor
10	Dr. Anindita Ray	Assistant Professor
11	Dr. Anwesha Dutta Ain	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes/No

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- a. Subject Allocation
- b. Lesson plans
- c. Syllabus Coverage
- d. Mentoring
- e. Any other information

Comments of the auditor:

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT.	JOURNAL		BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	4	3	12	2	1	22

Student-	0	0	0	0	0	0
Faculty						

Sl		Copyrig ht	Details of IPR			
· N						
1	Design		Patent Application Number-346552-001			
	Patent		C.B.R Number-205452			
			CBR date: 22/0//2021 Tisley LeT DASED COST EFFECTIVE OXYCEN CONCENTRATOR we der Letelle etwal Bren erter			
			Right Govt of India Status: Published			
			Publication Date: 06/05/2022			
			Inventors: Dr. Papiya Debnath , Dr. Manash Chanda, Subhrapratim Nath, Indraiit Das, Dr. Renuka			
			Sharma, Vipluv Pathak,			
			Dr. Shikha Saxena, Meghna Garg			
			https://search.ipindia.gov.in/DesignApplicationStatus			
2	Design		Patent Application Number-349686-001			
	Patent		C.B.R Number-207646			
			CBR date: 17/09/2021			
			Title: IOT BASED ROAD CUTTER under Intellectual Property Right, Govt of India.			
			Inventors: Dr. Debadutta Mishra, Dr. Indradeep Verma, Dr. K. Rama Krishna, Ajay Kumar Gupta, Dr Pratibha Chaturyedi			
			Pratibha Chaturvedi,			
			Dr. Trupti Ranjan Manapatra, Dr. Vijay Jagdish Upadnye, Dr. Papiya Debnath, Prof Ramesh			
3	Design		Application			
5	Design		Number:			
	гаени		2022110695			
			83			
			Application			
			Type:			
			Ordinary			
			Application			
			Date of			
			Filing: 02/12/2022			
			Applicant Name: Dr. Amit Khare; Mohamed J. Saadh; Mr. Sivakumar S.; Dr. Papiya Debnath;			
			Dr. Manash Unanda;			
			Dr. Snesnang Degadwaia 11tie of invention: AI AND MACHINE LEAKNING BASED EARLY			
			DETECTION, FREDICTION AND CLASSIFICATION OF BRAIN TUMORS AND			

		SEGMENTATION OF ITS STAGES USI TECHNIQUES Field of Invention: Computer Science Publication Date (U/S 11a): 09/12/2022	NG IMAGE PROCESSINC	Ĵ	V. STUDENT PROJECT MENTORING SYSTEM
4	Australi	Patent Grant-2:			
	an	Australian			
		Innovation Patent			
		2021106573			
	PROJRCT	ALLOCATION PROCESS	Discussion & Demonstration		-
	NO OF PRO	DJECT GROUPS	25		
	NO OF PRO	DJECT PROGRSS REPORTS SUBMITTED	25		

W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS
2021-2022	1	West Bengal Pollution Control Board (Starting Date:26.08.2019) (Sanctioned Amount : INR 9,98,000/-)	Completion report yet to be submitted

X. DETAILS OF IPR

	Innovati	Date of filing: 23/08/2021					
	on	Patent Grant Date: 10th day of November 2021					
	Patent	Title: A model driven engineering platform for designing multi paradigm cyber physical systems					
		Inventors: C. R., Komala; Kshatri, Sapna Singh; Nayak, Manjushree; Neware, Rahul; Kumar, Amit; J., Priya; Hasan,					
		Mohd Asif; Shaik, Bazani; Pallathadka, Harikumar; Senthil, R.; Ghosh, Amrit; Debnath, Papiya					
		http://pericles.ipaustralia.gov.au/ols/auspat/structuredSearch.do?previousQuery=&timeStamp=1644738636113&resultsPerPage=					
		criterion%5B0%5D.operator=AND&criterion%5B0%5D.helpVisible=false					
5	Indian	File Number: 202011055450					
	Patent	Date of filing: 21/12/2020					
		Status: Published					
		Publication Date: 24/06/2022					
		Title: Methods to compute human thought process and disorder					
		Inventors: Dr. Parsun Chakrabarti; Dr. Subhrendu Guha Neogi; Dr. Tulika Chakrabarti; Dr. Richa Mishra; Dr. Bui Thanh Hung;					
		Temkar; Amit Gupta; Dr. Sandeep Poddar; Dr. Ayijit Bhowmick; Dr. Syed Khasim; Dr. Shiladitya Pujari					
		https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus					
6	Indian	File number: 202011044252					
	Patent	Date of filing: 12/10/2020					
		Status: Published					
		Publication Date:8/7/2022					
		Title: A novel method to analyze liver cancer growth using reliability estimation to failure and computational weight					
		optimization of associated factors Inventors: Dr Tulika Chakrabarti, Dr. Bui Thanh Hung, Dr Achyuth Sarkar, Dr Pinaki Pratim					
		Acharya, Dr Niraj Mehta, Dr Shiladitya Pujari, Dr Papiya Debnath , Ms Nishat Shaikh and Dr Prasun Chakrabarti					
		Status: Published					
		https://ipindiaservices.gov.in/PatentSearch/ViewApplicationStatus					
7	Design	Patent Application Number-350721-001					
	Patent	C.B.R Number-208339					
		CBR date: 05/10/2021					
		Status: Published					
		Publication Date: $16/12/2022$					
		Inte: IOI BASED GAS CHROMATOGRAPHY under Intellectual Property Right, Govt of India.					
		Inventors: Prof. Subhrapratim Nath, Dr. Manash Chanda, Dr. Papiya Debnath, Prof. Indrajit Das, Dr. Swapnadip Dey,					
		Prot. Sudipto Ghosh, Dr. Anup Dey, Prot. Aishwarya Dhara					
		https://search.ipindia.gov.in/DesignApplicationStatus					

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- Mentoring: The BSH Department has a robust mentoring structure in place. Each faculty mentors a group of 25-30 students.
 - Mentor: Mentee Ratio: 1:30
 - Mentor-mentee Interaction: 01 per week + occasional, as required
 - Issues on which emphasis is laid: 05 (Systematic Student data collection, Academic Performance, Attendance, Extra-curricular activities related to MAR, Psychological problems)
 - Mentors also encourage students to participate in different academic, cocurricular and extracurricular activities.
 - ✓ Project work is encouraged.
 - \checkmark Initiative is taken to showcase the efforts (however small it might be) made by the students.
- Support to Training and Placement cell:
 - The Course on Communication Skills and Personality Development, developed by the Department, is delivered as an additional value-added course beyond the prescribed University Curriculum.
 - It is targeted at enhancing the Employability Quotient of the students.
 - Regular weekly classes are integrated within the regular Routine.
 - Apart from the regular classes, special brush-up classes are also conducted for the final year students before the Placement activities ensue.
 - Training is imparted on the following:
 - ✓ Verbal Ability & Communication Skills
 - ✓ Content Development
 - ✓ Presentation skills
 - ✓ Interview skills
 - ✓ Group Discussion skills
 - ✓ Linguistic Aptitude
- Guardians' meet:

- A general Guardians' Meet is arranged every Semester, where all guardians are invited to interact freely with the teachers and mentors.
- The guardians are also given detailed information on the activities and achievements of the department, and the future plans for development of the students.
- Apart from this half-yearly meet, the mentors meet the guardians of respective students, as and when required, to discuss their academics and / or any other issue related to discipline or performance.
- Assistance to students for scholarship:
 - The Departments takes responsibility for Timely Dispersal of relevant information related to several Scholarship Schemes available in the Institution.
 - The Department also helps the students in conducting the official procedures for applying and procuring such Scholarships.
 - 297 such Scholarships were availed by the students in the academic year 2021-22.
- Holistic development through extracurricular activities:
 - BSH promotes holistic and inclusive education, taking utmost care to standardise and bridge the gulf between weak learners and advanced learners, and cognitive, physical, social, and emotional well-being of the students through various extra-curricular activities, social outreach programmes and sports round the year.
 - Bridge Courses and Remedial Classes are regularly and systematically conducted for facilitating the weak learners, while advanced learners are encouraged to pursue projects that promote the skills of designing and solution through application of their skills and knowledge.
 - The major activities of the extra-curricular Clubs are organised by the faculty members of the BSH Department, and these promote all-round development of the students, help them pursue their passion and hobbies, channelise the young energy in positive ways, and enhance their creativity.
 - Inclusive education is promoted through different events and competitions that are organised by the Department where the students as well as the faculty members can showcase their talent, irrespective of linguistic, regional and religious diversities.

Z.VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with 30 or more contact hours) offered	Duration of course (Hours)	Number of students enrolled in the year	Number of Students completing the course in the year	Remarks
1.	Android Application Development	30 Hrs.	197	188	Involvement of More Students required.
2.	Business Analytics - Introductory Courses using R	30 Hrs.	400	379	Involvement of More Students required.
3.	Computer Fundamentals, Installations and Maintenance	30 Hrs.	522	463	Involvement of More Students required.
4.	Data Analysis, Visualization and Scientific Computation with MATLAB	30 Hrs.	89	81	Involvement of More Students required.
5.	Full Stack Web Development	30 Hrs.	244	225	Involvement of More Students required.
6.	Fundamentals of Electric Vehicles	30 Hrs.	81	76	Involvement of More Students required.
7.	Programming with Python	30 Hrs.	117	105	Involvement of More Students required.
8.	Android Application Development	30 Hrs.	197	188	Involvement of More Students required.
9.	Business Analytics - Introductory Courses using R	30 Hrs.	400	379	Involvement of More Students required.

Name of the Course	Course Timing	Course Coordinator
Employability Enhancement Program	23.08.2021 - 04.09.2021	Prof. Sayantika Bose Chakraborty
Statistical Analysis using Python	31.01.2022 - 11.02.2022	Prof. Papiya Debnath

AA. SWOC ANALYSIS:

Strengths

- 1. Possibility of innovative ideas through collaboration across a wide range of disciplines
- 2. Student-friendly environment with young, motivated and energetic faculty members and staff
- 3. Interaction with every single student of TINT through classes in all streams
- 4. Qualified faculty members with strong academic careers pursued from institutions of repute

Weaknesses

- 1. Lack of organised execution of structured Bridge courses
- 2. Scope of collaborative research with students yet to be explored

Opportunities

- 1. Interdisciplinary growth across departments
- 2. Expansion in the effectiveness of marketing/publicity of the college
- 3. Increased research-funding and the boost given by AICTE to research & development

Challenges

- 1. Declining interest of students in studying basic science and humanities subjects
- 2. Infrastructural facilities in the laboratories and classrooms
- 3. Low retention rate of fresh faculty members
- 4. **Optimum utilisation of human resources** available

Comments of the auditor:

2) Involvement of project work anyth students is required 2) Involvement of project work anyth students is required

Name and Signatures of Internal Auditors

Name & Signature of the IQAC Coordinator

1. Arpita Chuttopadhyrg @ 2. Sayanlika bose Chaksaberlij Loh.

Name & Signature of the HoD 8/2/22

Techno International New Town Academic Audit Evaluation Report

Assessment Year (3 yrs.): 2019-20,2020-21, 2021-22

Claura No.	Score in 5 poir	nt scale (Full Marks 130)	Pomarks
clause No.	Internal Auditor	External Auditor	Remarks
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TOTAL	106	101	

	Name	Designation	Affiliation	Signature
External Auditor	Pr. Utpal Gangoonly	Protesser	MSIT	Planan DI
Internal Auditor	Arpita Chittopethy	Asst. Prof.	TINT	A Chattohathin
Internal Auditor	S.B. Chak rabort	Asso. Prof.	TINT	Sipple
IQAC Coordinator	Dr. Ayun Chatrato	ty Arst. Prof.	TINT	18 hand
HoD	Kakali Ghosh	Assac. Prof	TINT	Cape S.
Director	Dr. R. J. GDSWAM	Dimector	TINT	A

M

Comments of the auditor:

1) To organized more FDP & Workshop 2) Some initiation is requiring for dependmental project.

langgallyay

Prof. (Dr.) Utpal Gangopadhyay Professor Meghnad Saha Institute of Technology Nazirabad, Kolkata - 700150

Name and Signatures of Internal Auditors

1. Dr Arpita Chattopadhyay 1. Chuttopadhyay 2 Dr. Sayantika Bore Chakeaborly Stols Name & Signature of the IQAC Coordinator

Name Signature of the HoD

EXTERNAL ACADEMIC & ADMINISTRATIVE AUDIT AY – 2021-22

DEPARTMENT OF CIVIL ENGINEERING



TECHNO INTERNATIONAL NEW TOWN

DATE: 13th February

A. DEPARTMENT DETAILS

Name of Department:	CIVIL ENGINEERING							
Name of Programme:	B.Tech in CIVIL ENGINEERING							
Academic year	2021-22							
Student Intake	60							
No. of enrolled student	23							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered			6	8	7	7	6	4
No. of Practical classes offered			3	5	5	3	2	2

B. FACULTY/STAFF STRENGTH 14

C. STUDENT FACULTY RATIO:

	2021-2022
STUDENT FACULTY RATIO	17.14

D. NO. OF LABORATORIES: 10

Sl.No.	Lab Name	Lab Name No. of accommodation		Specification	Last Upgraded
1	Soil Mechanics Laboratory	35	Given in annexure	Given in annexure	Given in annexure
2	Concrete Technology Laboratory	35	Do	Do	Do
3	Highway & Transportation Laboratory	35	Do	Do	Do
4	Environmental Engineering Laboratory	35	Do	Do	Do
5	Surveying & Geomatics Laboratory	35	Do	Do	Do
6	Geology Laboratory	35	Do	Do	Do
7	Solid Mechanics Laboratory	35	Do	Do	Do
8	Water Resource Laboratory	35	Do	Do	Do
9	Fluid Mechanics Laboratory	35	Do	Do	Do
10	Computer Aided Drawing Laboratory	35	Do	Do	Do

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

F. DETAILS OF ICT TOOLS: a) 1 no. OH projector b) 2 no Total Station

G. FACULTY DETAILS:

2020-2021:

	Name of the Faculty	Highest	Experience	Roles &	Designation	Date of
S.No	Member	Qualification With	(Years)	Responsibilities		Joining
		Specialization				
1	Sankar Chakraborty	Geotechnical Engineering	Total experience 40 years	Teaching	Professor	02/11/2015
2	Dr Sanjoy Das Neogi	PhD	5 years industry 13 years academic	5 years industry Head of the department As 13 years Chair of DAC academic As		02/12/2017
2	Siddhartha Mukherjee	MCE (Geotechnical Engineering)	8 years industry 20 years academics	Teaching Member of DAC	Assistant Professor	15/07/2015
3	Somnath Majumder	ME, (Structural Engineering)	12 Years	Teaching Member of Exam Cell Convenor of DAC	Assistant Professor	10/04/2014
4	Rajib Majumder	M.Tech (Water Resources Engineering)	13 Years	Teaching Member of Placement Cell	Assistant Professor	09/07/2013
5	Sumit Narayan Bose	M.Tech (Transportation Engineering)	Tech (Transportation gineering) 7 years Teaching Member of Anti-ragging committee.		Assistant Professor	15/07/2014
6	Alinda Dey	M.Tech, (Structural Engineering)	7 years	Teaching	Assistant Professor	15/07/2015
7	Ranajit Basu	M.Tech (Environmental Engineering)	7 years	Teaching	Assistant Professor	24/07/2017
8	Mousumi Kundu	M.Tech (Geotechnical Engineering)	7 years	Teaching	Assistant Professor	13/04/2017
9	Jenifar Begam	M.Tech (Water Resources Engineering)	4 years	Teaching Member of Admission cell	Assistant Professor	10/07/2017
10	Krishanu Bhaumik	M.Tech (Structural Engineering)	2 years	Teaching	Assistant Professor	25/01/2018
11	Sourav Dutta	M.Tech (Structural Engineering)	3 years	Teaching	Assistant Professor	03/01/2019
12	Sourav Biswas	M.Tech (Structural Engineering)	3 years Teaching		Assistant Professor	18/01/2019

13	Srijita Dey	M.Tech (Geotechnical Engineering)	1 year	Teaching	Assistant Professor	25/01/2018
14	Moudipta Banerjee	ME (Environmental Engineering)	2 years	Teaching	Assistant Professor	01/02/2019

H. CHOICE-BASED ELECTIVE COURSE*

Semester	Year	No. of elective courses offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students
VI	2021-22.	8	8	4
VII	2021-22.	18	14	8
VIII	2021-22.	12	7	6

I. COURSE DELIVERY:

Year/Semest	Session	From Core Dept			From other Dept			To other Dept			
er(Theory Labs)		No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	
III	2021 - 22	6	4	10	5	5	12	Nil	Nil	Nil	
IV	2021 - 22	6	12	23	1	1	NA	Nil	Nil	Nil	
V	2021 - 22	9	11	23	NA	NA	NA	Nil	Nil	Nil	
VI	2021 - 22	9	9	17	1	1	2	Nil	Nil	Nil	
VII	2021 - 22	9	10	20	1	1	2	Nil	Nil	Nil	
VIII	2021 - 22	5	6	11	1	1	2	Nil	Nil	Nil	

J. WORKLOAD DETAILS:

2021 - 22

S. No	Name of the	Session	Name(s) of the Theory/Lab	No. Cou	No. of Courses		No. of Courses		of iods	Credits	Workload	Completion Status
	member			Т	Р	Т	Р					
1.	Sankar Chakraborty	2021 - 22	CE(PROJ)792, CE(PROJ)882		2		8	10	8	Completed		
2.	Dr. Sanjoy Das Neogi	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(PC)501, CE(PC)597, CE(PE)702C, CE(PC)601, CE(PC)604, CE(PC)694, CE(OE)802B	5	4	19	19	24	38	Completed		
3.	Siddhartha Mukherjee	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(PC)594, CE(PC)504, CE(PC)591, CE(PC)401, CE(PC)695, CE(PC)602, CE(PE)601B, CE(OE)801C	1	5	18	26	24	44	Completed		
4.	Somnath Majumder	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(ES)301, CE(PC)503, CE(PE)704B, CE(PE)704A, CE(ES)402, CE(ES)492, CE(PE)602B, CE(OE)801B	6	3	22	16	31	38	Completed		
5.	Rajib Majumder	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(PC)502, CE(PE)701C, CE(PC)403, CE(ES)401, CE(ES)491, CE(PC)493, CE(PC)693, CE(PC)603, CE(PE)801A	7	5	22	23	28	45	Completed		
6.	Sumit Narayan Bose	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(PC)506, CE(PC)596, CE(PE)705A	2	3	15	10	17	25	Completed		
7.	Alinda Dey	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(ES)392, CE(PC)503, CE(PE)704A, CE(PC)494, CE(PC)404, CE(PE)602B	4	4	18	17	24	35	Completed		
8.	Ranajit Basu	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(ES)302, CE(PC)505, CE(PC)595, CE(PE)703A, CE(HS)401, CE(PC)402, CE(ES)491, CE(PC)601, CE(OE)802D	7	4	27	18	29	45	Completed		
9.	Mousumi Kundu	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(ES)392, CE(PC)596, CE(PE)702B, CE(ES)493, CE(PC)493, CE(PC)693, CE(PE)602A, CE(PE)801D	3	7	13	33	23	46	Completed		
10	Sourav Dutta	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(HS)302, CE(PC)494, CE(ES)492	1	4	1	14	14	15	Completed		
11	Sourav Biswas	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(HS)302, CE(PE)702A, CE(PC)404, CE(ES)492, CE(PC)494	3	4	6	20	21	26	Completed		
12	Moudipta Banerjee	2021 - 22	CE(PROJ)792, CE(PROJ)882, CE(HS)302, CE(PC)595, CE(PE)703A, CE(PC)402, CE(ES)491	3	4	8	12	20	20	Completed		

****Add Additional sheet if necessary**

K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared			4	12	11	10	10	6	53
No. of courses for which course lesson plans are not prepared			0	0	0	0	0	0	0
No. of courses verified by internal verifier (Senior Faculty/HOD)			4	10	10	9	10	6	49
No. of courses for which the Lesson Plans are modified after verification			1	2	0	0	0	1	4
No. of course not verified			0	0	0	0	0	0	0

(Evidence To Be Verified: course lesson plan documents) (Keep all Lesson plan in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not?

Note: Check Mentor Books forAuditing

S.No	Name Of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1	Mr Sumit Naravan Bose (2019-2020 7th Sem 8th sem)	(18701315120-18701316064)	30	11	
1	Mr.Ranaiit Basu (2019-2020 7th Sem. 8th sem)	(18701316065-18701317024)	29	11	
•	Ms. Mousumi Kundu (2019-2020 7th Sem, 8th sem)	(18701316075-18701316114)	30	11	
	Mr. Alinda Dey (2019-2020 7th Sem, 8th sem)	(18701316115-18701317140)	31	11	
2	Mr Somnath Majumder (2019-2020 5th Sem. 6th sem)	(18701317046-18701317079)	29	10	
2	Mr.Dibyendu Shil (2019-2020 5th Sem, 6th sem)	(18701317080-18701318020)	31	10	
•	Mr. Rajib Majumder (2019-2020 5th Sem, 6th sem)	(18701317095-18701317130)	29	10	
	Mr. Sumit Narayan Bose (2019-2020 5th Sem, 6th sem)	(18701317130-18701318093)	26	10	
2	Mr. Ranajit Basu (2019-2020 3rd Sem. 4th sem)	(18701318040-18701318066)	26	10	
3	MR. Alinda Dev (2019-2020 3rd Sem, 4th sem)	(18701318067-18701318092)	26	10	
•	Ms. Jenifer Begam (2019-2020 3rd Sem, 4th sem)	(18701319002-18701319072)	20	10	
	MS. Mousumi Kundu (2019-2020 3rd Sem, 4th sem)	(18701319073-18701319100)	26	10	
4	Mr. Sumit Naravan Bose, Mr. Raijb Majumder(2020-2021 7th.8th sem)	(18701317046-18701317079)	29	12	
Т	Mr. Ranajit Basu, Ms. Jenifer Begam(2020-2021 7th,8th sem)	(18701317080-18701318020)	31	12	
•	Ms. Mousumi Kundu (2020-2021 7th,8th sem)	(18701317095-18701317130)	29	12	
	Mr. Alinda Dey, Mr.Somnath Majumder (2020-2021 7th,8th sem)	(18701317130-18701318093)	26	12	
5	Mr.Sumit Naravan Bose (2020-2021 5th.6th sem)	(18701318040-18701318066)	26	8	
5	Mr.Alinda Dey (2020-2021 5th,6th sem)	(18701318067-18701318092)	26	8	
•	Ms. Jenifer Begam (2020-2021 5th,6th sem)	(18701319002-18701319072)	27	8	
	Mr. Dibyendu Shil (2020-2021 5th,6th sem)	(18701319073-18701319100)	26	8	
6	Mr.Ranaiit Basu (2020-2021 3rd.4th sem)	(18701319023-18701319052)	28	12	
U	Ms. Jenifer Begam, Ms. Mousumi Kundu (2020-2021 3rd,4th sem)	(18701319053-18701320033)	29	12	
•		(12	
7	Mr.Somnath Majumder (2021-2022 7th, 8th sem)	(18701318040-18701318066)	26	10	
	Ms. Jenifer Begam (2021-2022 7th, 8th sem)	(18701318067-18701318092)	26	10	
	Ms. Mousumi Kundu (2021-2022 7th, 8th sem)	(18701319002-18701319072)	27	10	
	ivii. Rajio iviajuilluer (2021-2022 /ul, olin sem)	(18/013190/3-18/01319100)	26	10	
8	Mr. Sumit Narayan Bose (2021-2022 5th, 6th sem)	(18701319023-18701319052)	28	11	
	Mr.Alinda Dey (2021-2022 5th, 6th sem)	(18701319053-18701320033)	29	11	
9	Mr.Ranajit Basu (2021-2022 3rd, 4th sem)	(18701319031-18701321024)	22	10	

M. DETAILED NON-ACADEMIC RESPONSIBILITY

Sl.No.	FacultyName	Cell/Committee/Club
1	Mousumi Kundu	Art Club (Aesthetica)
2	Rajib Majumder, Mousumi Kundu	Literacy Club (Litwits)
3	Rajib Majumder	Cine Club (TINT Talkies)
4	Sumit Narayan Bose (2020,2021), Gourab Panda(2022)	Photography Club
5	Jenifar Begum, Sanjoy Das Neogi	Hridmajhare
6	Sanjoy Das Neogi	Coding Club
7	Soumendu Saha	Science Club
8	Mousumi Kundu	Kanyashree Club
9	Gourab Panda	NSS Unit
10	Sourav Dutta(2020,2021), Eshita Sadhukhan(2022)	Sports Committee
11	Rajib Majumder	Cultural Committee
12	Rajib Majumder(2020,2021)	Anti-ragging Committee
13	Mousumi Kundu, Rathindranath Mukherjee	Anti-ragging squad
14	Mousumi Kundu	Adventure Club (Hikers & Planeteers)
15	Mousumi Kundu	Internal complaint Committee
16	Somnath Majumder	Disciplinary Committee
17	Rajib Majumder (2021), Siddhartha Mukherjee (2022)	Placement Cell

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED (2019-22)

	Total Number	Date	Duration	International/National/ State/University/Inter College/Intra College	Total no of participation
Expert Talk	1	15/09/2021	3hr	Intra College	96
FDP		18th to 22nd Jan 2021	27.50hr	Intra College	14
Seminar / Webinar	1	18/06/2021	2hr	Intra College	89
Workshop	-		-	-	-
Conference	-		-	-	-

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Year	Total Number	Duration	International/National	Total no of
				/State/University/Inter	participation
				College/IntraCollege	
Expert Talk		-	-	-	-
FDP	2021-22	7	7 weeks	National	09 nos of dept staff members who did FDP
Seminar		-	-	-	-
Workshop		-	-	-	-
Conference		-	-	-	-

P. ACHIEVEMENTS OF THE STUDENTS / FACULTY MEMBERS IN EXTRA CO-CURRICULAR ACTIVITIES: NIL

Sl.No.	Event Description	Year	Organized By	StudentName	FacultyName	International/National /Sta te/University/Int erCollege/Intra College
1.	3rd place in Student Design Challenge - India in Structural Engineering Design.	2019	Bentley Institute	Abhisek Barat	Dr. Siddhartha Mukherjee	India
2.						
3.						

Q. NO.OF STUDENTS OPTED FOR HIGHER EDUCATION:

Year	No. of Students opted for higher education
2021-22	2

R. NO.OF STUDENTS PLACED:

Year	No. of Students placed
2021-22	25
S. DEPT.ACADEMIC COMMITTEE(DAC)

Sl.No.	Name	Designation
1	Dr. Sanjoy Das Neogi	Assistant Professor
2	Siddhartha Mukherjee	Assistant Professor
3	Somnath Majumder	Assistant Professor
4	Rajib Majumder	Assistant Professor
5	Sumit Narayan Bose	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- a. Subject Allocation
- b. Lesson Plans
- c. Syllabus Coverage
- d. Mentoring
- e. Any Other Information

Comments of the auditor:

U. DEPARTMENTAL RESEARCH INITIATIVES:

ТҮРЕ	INT.	JOURN	AL	BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	1			1		
Student-Faculty	5					

V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION	Students may choose their
PROCESS	Project guide according to
	their merit list
Year	2021-2022
NO OF PROJECT GROUPS	21
NO OF PROJECT	21
PROGRESS REPORTS	
SUBMITTED	

W. DEPARTMENTAL PROJECT INITIATIVES: NIL

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS

X. DETAILS OF IPR: NIL

Sl.No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- 1. Department encourages outstanding academic performance.
- 2. Department promotes technical and cultural activities to endorse inclusiveness and cohesion among the students.
- 3. Department solicits research and industrial consultancy involving students.

Z. VALUE ADDED COURSES OFFERED

SI No	Name Of The Value Added Courses(with 30 or more contact hours)offered	Batch	Year	Duration Of Course(Hours)	Number of students enrolled in the year	Number of Students completing the course the year	Remarks
1	Employability Enhancement Program	4th year		30	94	92	
2	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	3rd year		30	50	47	
3	Programming for complex problem solving using pseudocode	3rd year	2021-22	30	52	51	
4	Statistical Analysis using Python	3rd year		30	53	50	
5	Business Analytics	2nd year		30	21	20	

AA. SWOC ANALYSIS:

SWOC	ANALYSIS
STRENGTH:	 Faculty of all specializations are present Faculty-student collaboration research ambience exists. Excellent laboratory infrastructural facility.
WEAKNESS:	 Lack of alumni interaction Less interdisciplinary research activity
OPPORTUNITIES:	 Scope of revenue generation through consultancy to industry Scope of employment in both core and computational branches
CHALLENGES:	 Decline in admission in core engineering sector Delay in infrastructural development activity due to Covid pandemic.

Techno International New Town Academic Audit Evaluation Report

-

Assesment Year: 2021 - 2022

	Score in 5 poin	Remarks		
lause No.	Internal Auditor	External Auditor		
В	5.0	50		
С	5.0	5.0		
D	4.5	4.5		
E	4.5	4.0		
F	4.5	1.0		
G	5.0	5.0		
н	5.0	5.0		
1	4.5	4.0		
J	5-0	5.0		
К	4.5	4.0		
L	4.5	4.0		
М	.5.0	5.0		
N	4.0	4.0		
0	4.0	4.0		
Р	5.0	1.5		
Q	4.0	3.5		
R	4.0	3.5		
S	5.0	50		
Т	4-5	1.5		
U	3.5	3-5		
V	4.0	4.0		
W	0.0	0.0		
Х	0.0	0.0		
Y	5.0	50		
Z	5.0	5.0		
AA	5.0	50		
TOTAL	110	106		

AA	5.0	5.0		EL ANKAD
TOTAL	110	106		IBAL EN UNELLINE (OR)
			A (CIL-41-	ATTO GOLD TO THE PARTING
	Name	Designation	Affiliation	Signature
External Auditor	Dr. Dipankar	Professor	Jacakpur Universit	Parkar (gmail.com
Internal Auditor	Arct. Sidehartho	Assistant Rokum	Technig International	1 Auchhulp
Internal Auditor	het someath	Assistant Prokessa	Michono Sonlignational	Shrjumde
IQAC Coordinator	Dr. Ayer bort	Associate housen	Technic genturational	1
HoD	Dr. Sanjey Day	Associate holeson	Techno Intervationa New Town	Samping Chan when
Director	Dr. Radha tak	Director	Rehris Intervalione New Toron	Ri awrith
	ensiesam.		I IVen Lough	Aller

Comments of the auditor:

The different components exhibited and presented related to academic and it are found in order.

Name and Signature of Internal Auditors

DR. DIPANKAR CHAKRAVORTY STRUCTURAL ENGINEERING DIVISION HAKRAVORTY PROFESSOR & FORMER HEAD CIVIL ENGINEERING DEPARTMENT CHAKRAVORTY JADAVPUR UNIVERSITY B E (JU) GOLD MEDALIST M TECH (IITKGP) GOLD MEDALIST M TECH (IITKGP) GOLD MEDALIST (OFF) 033-2457 2589 (M) 9830188502 289 (M) 9830188502 289 (M) 9830188502 289 Name & Signature of the IQAC Coordinator

Name & signature of The HOD

Mpanh Chamarty

PROF. DR. DIBANKAR

1. Brof. Siddharthan Mutcherjee J. Mukherju

haper

DR. SANJOY DAS NEOGI

Sourjans An W-y

Dr. Sanjoy Das Neogi HOD-Civil Dept Techno International New Town (Formerly Known as Techno India College of Technology) Block-DG AA-1, New Town, Rajarhat, Kol-156

2. Brof. Som nach Mayunder -onnalt elfunds

Techno International New Town

(Formerly Known as Techno India College of Technology) Block - DG 1/1, Action Area 1, New Town, Kolkata - 700156



External Academic Audit Report 2021-22 Department of Computer Science and Engineering

Techno International New Town

Department of CSE

Academic Audit Report (AY 2021-2022)

A. DEPARTMENT DETAILS

Name of Department:	CSE									
Name of Programme:	B. Tech									
Academic year	2021-22									
Student Intake	180 + 180 + 120 + 90 = 570									
No. of enrolled student				Fresh Lateral Admission Admission		eral ssion	Strean Chang	n ,	Total	
	1st Y	ear	1	173		-	-		173	
	2nd Y	/ear			3	6	17		215	
	3rd Y	'ear							137	
	4th Y	'ear							102	
	Ι	II		III	IV	V	VI	VII	VIII	
No. of Theory courses offered	3	4		5	6	7	6	4	3	
No. of Practical courses offered	3	4		4	2	3	2	1	1	

B. FACULTY/STAFF STRENGTH: 21

C. STUDENT FACULTY RATIO: 1:20

D. NO. OF LABORATORIES: 8

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	DBMS Lab	28	Computer	core i5/i3, 3.2GHz, 4/8GB, 1TB/240GB SSD	2013 RAM upgraded to 8GB in 2019 SSD (500GB) installed in 2022
2	Network Lab	28	Computer	Dual core/ Core 2 Duo/ i3, 2/4/8GB, 3GHz, 320GB/240 GB SSD	2011 RAM upgraded to 8GB in 2019 SSD (500GB) installed in 2022
3	Programing Lab-1	30	Computer	DELl vostro 3681, Core i7 10700 CPU@ 2.9 GHz, 8 GB RAM , 512GB SSD NVMe P4,2.66GB,533FSB, Dual core, 2GB/1GB, 40GB/160GB, 2.7GHz	2011 RAM upgraded to 8GB in 2019 SSD (500GB) installed in 2022
4	Programing Lab-2	29	Computer	DELl vostro 3681, Core i7 10700 CPU@ 2.9 GHz, 8 GB RAM , 512GB SSD NVMe	2011 RAM upgraded to 8GB in 2019 SSD (500GB) installed in 2022

				Dual Core/Core i3 3GHz/2.70GHz, 2GB/4GB, 240GB SSD	
5	Project Lab1	29	Computer	core i3, 3GHz, 8GB, 240GB SSD	2013 RAM upgraded to 8GB in 2019 SSD (500GB) installed in 2022
6	Project & Research lab	30	Computer	core i5/i3/Dual Core, 3.2GHz/3GHz 8GB/4GB/2GB, 1TB/240GB SSD	2017 SSD (500GB) installed in 2022
7	OS Lab	29	Computer	core i5/Dual core, 2.9GHz/3GHz/ 3.2GHz, 2GB/ 8GB, 320GB/240GB/1TB	2017
8	H/W Lab	4	14 Trainer kit, microprocesso r kit, 8085/ 8086 kit, 8255 peripheral	Integrated IC, Bread board, wire	2017 in 2022 upgraded with 10 Trainer kit

F. DETAILS OF ICT TOOLS:

- Moodle based teaching and learning along with periodical assessments conducted.
- Online classes, webinars and meetings were conducted through MS-Teams.
- Online laboratory classes in some courses were conducted through VPL tool in moodle
- Ceiling-mounted Projectors installed in laboratories and in pre-final year classrooms.
- The campus has a network of more than 250 computers, and is Wi-Fi enabled to ensure mobile computing.

G. FACULTY DETAILS

S.No	Name of the Faculty Member	Highest Qualification With Specialization	Experience (Years)	Roles & Responsibilities	Designation	Date of Joining
1.	KAMALESH KARMAKAR	M.Tech., PhD registered	11 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	01/09/2020
2.	SANJIB ROY	M.Tech., PhD registered	11 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	04/01/2021
3.	RAJAT SUVRA NANDY	M.Tech., PhD registered	6 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	04/01/2021
4.	AMAL KUMAR SAHA	M.Tech	25 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	01/08/2018
5.	SUMAN BANERJEE	M.Tech	2 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	01/12/2021
6.	SWAGATA PAUL	M.Tech., PhD registered	19 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	01/01/2011
7.	NABANITA DAS	ME, PhD registered	16 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	10/02/2006
8.	ARGHYA KUSUM DAS	M. Tech,PhD Enrolled	15 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	10/01/2006
9.	SAYANTANI DE	M.Tech, PhD Enrolled	12 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	09/08/2010
10.	BIKASH SADHUKHAN	ME, PhD registered	15 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	23/07/2007
11.	DEBRAJ CHATTERJEE	M.TECH	8 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	29/01/2014
12.	NILANJANA ADHIKARI	M.TECH, PhD enrolled	14 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	03/02/2016

13.	TANUSREE CHATTERJEE	PhD in Engg.	13 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	01/08/2017
14.	NAIRITA SARKAR	ME, PhD registered	9 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	23/07/2014
15.	SOMENATH MUKHERJEE	ME, PhD registered	6 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	18/08/2017
16.	TUHINSUBHRA SUBHRA SANPUI	ME, PhD registered	5 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	20/01/2018
17.	PRIYANJANA MITRA	ME, PhD registered	3 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	04/03/2020
18.	BHARATI SINHA	ME, PhD registered	2 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	05/01/2021
19.	ABHIK SARKAR	ME, PhD registered	2 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	10/02/2021
20.	SANANDA MITRA	ME, PhD registered	12 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	15/03/2011
21.	MR. ARINDAM ROY	ME, PhD registered	3 Years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	22/06/2021

H. CHOICE BASED ELECTIVE COURSE

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students
5 (New Syllabus)	4 PEC-IT501A Theory of Computation PEC-IT501B Artificial Intelligence PEC-IT501C Advanced Computer Architecture PEC-IT501D Computer Graphics	3 PEC-IT501B Artificial Intelligence PEC-IT501C Advanced Computer Architecture PEC-IT501D Computer Graphics	1 PEC-IT501B Artificial Intelligence
6 (New Syllabus)	4 PEC-IT601A Advanced Algorithms PEC-IT601B Distributed Systems	3 PEC-IT601A Advanced Algorithms PEC-IT601B Distributed Systems	1 PEC-IT601D Image Processing

	PEC-IT601C Signal & Systems PEC-IT601D Image Processing	PEC-IT601D Image Processing	
6 (New Syllabus)	4 PEC-IT602A Parallel and Distributed Algorithms PEC-IT602B Data warehousing and Data Mining PEC-IT602C Human Computer Interaction PEC-IT602D Pattern Recognition	2 PEC-IT602B Data warehousing and Data Mining PEC-IT602D Pattern Recognition	1 PEC-IT602D Pattern Recognition
6 (New Syllabus)	22OEC-601A Numerical MethodsOEC-601A Numerical MethodsOEC601B Human Resource Development and Organizational BehaviorOEC-601B Human Resource Development and Organizational Behavior		1 OEC-601A Numerical Methods
7 (New Syllabus)	5 PEC-CS701A Quantum Computing PEC-CS701B Cloud Computing PEC-CS701C Digital Signal Processing PEC-CS701D Multi Agent Intelligent System PEC-CS701E Machine Learning	2 PEC-CS701B Cloud Computing PEC-CS701E Machine Learning	1 PEC-CS701B Cloud Computing
7 (New Syllabus)	5 PEC-CS702A Neural Networks and Deep Learning PEC-CS702B Soft Computing PEC-CS702C Ad-Hoc and Sensor Networks PEC-CS702D Information Theory and Coding PEC-CS702E Cyber Security	3 PEC-CS702A Neural Networks and Deep Learning PEC-CS702C Ad-Hoc and Sensor Networks PEC-CS702E Cyber Security	1 PEC-CS702E Cyber Security
7 (New Syllabus)	3 OEC-701 A Operations Research OEC-701 B Multimedia Systems OEC-701 C Introduction to Philosophical Thoughts	2 OEC-701 A Operations Research OEC-701 B Multimedia Systems	1 OEC-701 B Multimedia Systems
8 (New Syllabus)	5 PEC-CS801A Signals & Networks PEC-CS801B Cryptography and Network Security PEC-CS801C Speech and Natural Language Processing PEC-CS801D Web and Internet Technology PEC-CS801E Internet of Things	3 PEC-CS801B Cryptography and Network Security PEC-CS801D Web and Internet Technology PEC-CS801E Internet of Things	1 PEC-CS801D Web and Internet Technology

8 (New Syllabus)	5 OEC-CS801A Big Data Analytics OEC-CS801B Cyber Law and Ethics OEC-CS801C Mobile Computing OEC-CS801D Robotics OEC-CS801E Soft Skill and Interpersonal Communications	3 OEC-CS801A Big Data Analytics OEC-CS801B Cyber Law and Ethics OEC-CS801C Mobile Computing	1 OEC-CS801B Cyber Law and Ethics
8 (New Syllabus)	3 OEC-CS802A E commerce and ERP OEC-CS802B Microelectronics and VLSI Design OEC-CS802C Economic Policies in India	2 OEC-CS802A E commerce and ERP OEC-CS802B Microelectronics and VLSI Design	1 OEC-CS802A E commerce and ERP

I. COURSE DELIVERY:

Year /			From Oth	er Dept	To Other Dept				
Semester (Theory & Labs)	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits
Ι	3X0	3X0	0	3X9	3X6	17.5	0	0	0
II	3X3	3X2	5	3X9	3X6	15.5	9	2	5
III	3X8	3X5	12	3X5	3X4	10	4	2	3
IV	3X8	3X6	17	3X2	3X2	4	3	1	1
V	2X11	2X8	21	2X2	2X2	3	0	0	0
VI	2X9	2X7	19	2X1	2X1	3	0	0	0
VII	2X4	2X3	12	2X2	2X2	6	1	1	3
VIII	2X2	2X2	9	2X2	2X2	6	1	1	3

Note:

- 'PXQ' under 'No. of Faculty' means Q number of faculties for P number of sections
- 'NXM' under 'No. of Courses' means M number of courses for N number of sections
- CSE faculties took classes in ECE, CE, ME depts, as reflected under 'To Other Dept' heads

J. WORKLOAD DETAILS:

SL	Name of the faculty member	Name(s) of the Theory/Lab	Να Cou	No. of Courses). of riods	Credits	Work Load	Status
			Т	Р	Т	Р			
		Computer Networks(T)	1		4		3		
1	BIKASH CHANDRA SADHUKHAN	Computer Organization Architecture (T)	1		1		3	5 (EVEN)	Completed
		Operating System(T)	1		2		3		
		Computer Organization(T)	1		3		3	5(000)	
		Pseudo Code (T)	1		2		-		
	SWAGATA PAUL	Programming for Problem Solving(T)	1		4		3	14(EVEN)	- Completed
2		Programming for Problem Solving(P)		1		8	2		
2		IT Workshop Python(P)		1		3	2		
		Data Structure and Algorithm (T)	1		3		3	14 (ODD)	
		Data Structure and Algorithm (P)		1		8	2		
		Design & Analysis of Algorithm(T)	1		3		3		
		Design & Analysis of Algorithm(P)		1		12 2 18 (EVEN)		18 (EVEN)	
		Object Oriented programming(T)	1		3		3		
3	ARGHYA KUSUM DAS	Operating System (T)	1		3		3		Completed
		Operating System (P)		1		4	2		r
		Neural Networks and Deep Learning (T)	1		3		3	14 (ODD)	
		IT Workshop Python(P)		1		4	2		
		Data Structure & Algorithm(T)	1		2		3		
		Compiler Design(T)	1		6		3	16(ODD)	
4	ΝΑΒΑΝΙΤΑ ΠΑς	Data Structure & Algorithm (P)		1		8	2		Completed
4	NABANITA DAS	Programming for Problem Solving(Theory)	1		4		3	14(EVEN)	Sompleted
		Architecture Lab		1		8	2		

		Formal Language & Automata Theory	1		2		3		
5	SAYANTANI DE	Programming for Problem Solving(Lab)		1		8	2	14 (EVEN)	Completed
		Pattern Recognition (T)	1		6		3		
		Object Oriented Programming(T)	1		6		3		
		Object Oriented Programming(P)		1		8	2	16 (ODD)	
		Pseudo code T&P			2				
6	KAMALESH KARMAKAR	Design & Analysis of Algorithm(T &P)	1		6		3	19(EVEN)	Completed
		Computer Architecture Lab		1		4	2		
		Computer Network	1		8				
		Pseudo code T&P			1		NA		
		Multimedia Technology	1		2		3	_	
		Operation Research	1		1		3	16 (000)	
	SANJIB ROY	Data Structure & Algo (T)	1		1		3	10 (000)	
		Data Structure & Algorithm Lab		1		12	2		_
7		Programming for Problem Solving(Theory & Lab)	1		1		3		Completed
		Programming for Problem Solving(Lab)		1		7	2	15 (EVEN)	
		Formal Language & Automata Theory	1		3		3		
		Design & Analysis of Algorithm Lab		1		4	2		
		Software Engineering		1		4	2		
		Object Oriented Programming		1		4	2	20 (000)	
		IT workshop		1		4	2	20 (000)	
		Operating System Lab		1		8	2		
8	RAJAT SUVRA NANDY	Computer Architecture Theory	1		2		3		Completed
		Cryptography & Network Security	1		2		3		
		Programming for Problem Solving(Theory & Lab)	1		1		3	17 (EVEN)	
		Computer Architecture Lab		1		12	2		
		Software Engineering Theory	1		6		3	14 (000)	Comulated
9	ΑΜΑΓ ΚΟΜΑΚ ΣΑΗΑ	Software Engineering Lab		1		4	2	נעעט) 14 נעעט	completed

		Operating System Lab		1		4	2		
		DBMS Theory	1		4		3		
		Design & Analysis Algo Lab		1		8	2		
		Computer Architecture Lab		1		4	2	22 (EVEN)	
		Pseudo code T&P	1		2		NA		
		DBMS Theory & Lab		1		4	2		
		Object Oriented Programming Lab		1		8	2		
		Software Engineering Lab		1		4	2	13 (ODD)	
		Machine Learning (T)	1		1		3		
10	SUMAN BANERJEE	DBMS Lab		1		4	2		Completed
		Computer Network Lab		1		8	3	10(EVEN)	
		Psedu Code	1		2		NA	IO(EVEN)	
		Design & Analysis of Algorithm Lab		1		4	2		
		Data Structure Algorithm Theory	1		3		3		
	DEBRAJ CHATTERJEE	Data Structure Algorithm Lab		1		4	3	14 (ODD)	
		Cyber Security (T)	1		3		3		
11		Software Engineering Lab		1		4	2		Completed
11		Programming for Problem Solving(Theory)	1		4		3		completed
		Programming for Problem Solving(Lab)		1		4	2	16 (EVEN)	
		Computer Networks Lab		1		8	2		
		Computer Organization Theory(T)	1		3		3	15(ODD)	
		Computer Organization Lab(L)		1		12	2		
		Computer Architecture Lab		1		8	2		
		Computer Networks	1		2		3		
12	NILANJANA ADHIKARI	Web & Internet Technology	1		1		3		Completed
	,	Computer Organization & Architecture (T)	1		1		3	20 (EVEN)	1
		Computer Architecture (T)	1		3		3		
		Cryptography & Network Security (T)	1		2		3		
		Cyber Law & Ethics (T)	1		2		3		

		Formal Language & Automata (T)	1		1		3]
		Operating System Lab (P)		1		8	1		
		Operating System (T)	1		4		3	16 (ODD)	
10	TANUCOFF CUATTEDIEF	Operating System Lab (P)		1		4	2		Completed
13	TANUSREE CHATTERJEE	Programming for Problem Solving(T)	1		4		3		Completed
		Programming for Problem Solving(Lab)		1		12	2	16 (EVEN)	
		Data Structure & Algorithm Lab		1		4	2		
		Machine Learning (T)	1		3		3	(תתס)	
		IT Workshop Python(P)		1		4	3	17(000)	
		AI Theory	1		6		3		
		Cyber Law & Ethics	1		1		3		
14		Programming for Problem Solving(T)	1		1		3		
14	NAIRITA SARKAR	Distributed Database Management 1 1 3		3		Completed			
		Automata Theory	Automata Theory16324		24 (EVEN)				
		E-Commerce & ERP	1		3		3		
		DBMS Lab		1		4	2		
		Programming for Problem Solving(Lab)		1		8	2		
		IT Workshop(Python)		1		4	2		
		Object Oriented Programming(L)		1		4	2	14 (000)	
		Computer Organization Lab		1		4	2	14 (ODD)	
		T&P Pseudo Code	1		2		NA		
		Web and Internet technology	1		1		3		
15	SOMENATH MUKHERJEE	Programming for Problem Solving(L)		1		12	2		Completed
		Big Data Analysis	1		2		3		
		Object Oriented Programming(P)		1		4	2	24 (EVEN)	
		E-Commerce & ERP	1		1		33		
		Research Methodology	1		3		3		
		DBMS Theory	1		1		3		
10	TUHINSUBHRA SUBHRA	Operating System(T)	1		1		3	16 (000)	Completed
10	SANPUI	Operating System(L)		1		12		נעעט) אנ	Completed

		Multimedia Technology (T)	1		3				
		DBMS Theory	1		1		3		
		DBMS Lab		1		4	2		
		Computer Network Lab		1		4	2		
		Programming for Problem Solving	1		2		3	22 (EVENI)	
		Programming for Problem Solving Lab		1		4	2	23 (EVEN)	
		Design & Analysis Lab		1		4	2		
		E-Commerce & ERP	1		2		2		
		Cyber Law & Ethics	1		2		3		
		Neural Networks and Deep Learning (T)	1		1		3		
		Cloud Computing(T)	1		2		3	15 (OLD)	
		Software Eng. Lab		1		8	2		
		IT Workshop (P)		1		4	2		
17	PRIYANJANA MITRA	Research Methodology			1		3		Completed
		Distributed Database Management System	1	3 3			completed		
		Big Data	1		2		3	17 (EVEN)	
		Web & Internet Technology	1		2		3		
		Design & Analysis Lab		1		8	2		
		Cryptography & Network Security	1		1		3		
		Computer Organization Lab		1		8	2		
		Cloud Computing	1		1		3		
		Operation Research	1		2		3	17 (ODD)	
		Neural Network and Deep Learning	1		2		3		
		Software Engg Lab		1		4	2		
18	BHARATI SINHA	Computer Organization & Architecture Lab		1		4	2		Completed
		Programming for Problem Solving(T)	1		3		3		
		Programming for Problem Solving(L)		1		8	2	23 (EVEN)	
		Research Methodology	1		2		3		
		Cryptography & Network Security	1		1		3		
		Web & Internet Technology	1		2		3		

		Pseudo Code	1		2		NA		
		Big Data	1		1		3		
		Software Eng. Lab		1		4	2		
		Operating System Lab		1		4	2		
		Data Structure Lab		1		4	2	17 (ODD)	
		Operation Research	1		3		3		
		Machine Learning	1		2		3		
		Cyber Law & Ethics	1		2		3		
19	ABHIK SARKAR	Computer Architecture (T)	1		2		3		Completed
		Programming for Problem Solving(T)	1		2		3		
		Programming for Problem Solving(L)		1		8	2	2E (EVEN)	
		Computer Architecture (T)	1		1		3	25 (EVEN)	
		Organization & Architecture Lab		1		4	2		
		Pseudo code Tanning and Placement	1		2		NA		
		Design & Thinking Lab	1		4		2.5		
		Data Structure Lab		1		4	2		
		Software Eng. Lab		1		8	2	10 (000)	
		Operating System Lab		1		4	2	18 (000)	
		Machine Learning	1		2		3		
20	ς ανάνισα μίτρα	Computer Organization & Architecture (T)	1		1		3		
20	SANANDA MITINA	Automata Theory (T)	1		3		3		Completeu
		Programming for Problem Solving	1		1		3	21 (EVEN)	
		Programming for Problem Solving Lab		1		4	2	21 (EVEN)	
		Computer Organization & Architecture Lab		1		4	2		
		Computer Networks Lab		1		8	2		
		Cyber Security	1		1		3		
		Cloud Computing	1		3		3		
		Programming for Problem Solving	1		1		3		Completed
		Computer Organization Lab		1		12	2		
21	ARINDAM ROY	Pseudo Code			2		NA	19 (ODD)	

Distributed Database Management System	1		3		3		
Computer Architecture Theory	1		1		3		
Programming for Problem Solving	1		1		3		
Programming for Problem Solving Lab		1		8	2		
Big Data	1		1		3		
Cyber Law & Ethics	1		1		3		
Design & Thinking Lab		1		4	2		
DAA Lab		1		4	2	23 (EVEN)	

** Add additional sheet if necessary

K.COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	0	2	5	6	8	7	3	2	33
No. of courses for which course lesson plans are not prepared	0	0	0	0	0	0	0	0	0
No. of courses verified by internal verifier (Senior Faculty/HOD)	0	2	5	6	8	7	3	2	33
No. of courses for which the Lesson Plans are modified after verification	0	1	2	2	3	3	1	0	12
No. of courses not verified	0	0	0	0	0	0	0	0	0

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not? Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentee s	No of mentoring sessions	Remark
1.	Sayantani De	18700118017-18700118041 [2018-22 batch]	25	7	5 advanced learners and 1 weak student identified and taken necessary actions, 3 remedial classes recommended for conduction
2.	Bikash Sadhukhan	18700118042-18700118066, 18701618057, 18701618107 [2018-22 batch]	26	9	All issues addressed and risolved

3.	Arghya Kusum Das	18700118067-18700118093 [2018-22 batch]	26	10	All issues addressed and risolved
4.	Sanjib Roy	18700118094-18700119126 [2018-22 batch]	25	8	Conducted brush-up/special classes for placement
5.	Swagata Paul	18700119007-18700119045 [2019-23 batch]	23	15	2 remedial classesrecommended for conduction
6.	Debraj Chatterjee	18700119046-18700119072 [2019-23 batch]	26	8	3 remedial classes recommended for conduction
8.	Kamalesh Karmakar	18700119098-18700119125 [2019-23 batch]	25	8	6 remedial classes recommended for conduction and 2 classes conducted
11.	Nabanita Das	18700120001-18700120027 [2020-24 batch]	25	21	11 weak students found, 4 remedial classes recommended for conduction
12.	Tuhin Subhra Sapui	18700120028-18700120056 [2020-24 batch]	27	18	5 weak students and 8 advanced learners identified and proper action taken, 3 remedial classes recommended for conduction
13.	Amal Saha	18700120057-18700120084 [2020-24 batch]	26	17	7 weak students identified, 2 remedial classes recommended for conduction
15.	Tanusree Chatterjee	18700120113-18700120139 [2020-24 batch]	27	20	10 weak students, 4 advance learners identified, 3 remedial classes recommended for conduction
16.	Nilanjana Adhikari	18700120140-18700120167 [2020-24 batch]	28	15	4 weak students and 4 advanced learner students identified, 3 remedial classes recommended for conduction
17.	Priyaranjan Mitra	18700121183-18700121209 [2020-24 batch]	27	14	All issues are resolved

M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

Sl. No.	Faculty Name	Cell/ Committee/ Club
1	Sajib Chowdhury	Sports Committee, Anti Ragging Committee, Admission cell
2	Sayantani De	Science and Technology club, Internal Complaints Committee, Routine committee
3	Arghya Kusum Das	Internal Complaints Committee , Grievance Redressal Cell, Departmental Reports for surveys, AWS course management
4	Malancha Khan	Member of Anti Ragging Committee, Member of Kanyashree Club, Member of TCSion activity, Exam Form and Review form fill up committee, Grade card and registration Certificate distribution, Assistance in Admission Cell,
5	Nilanjana Adhikari	Form and Review form fill up committee, member of TINT Literary Club - LITWITS
6	Debraj Chatterjee	Member of Photography club, Member of Literary Club , Co-convenor of Art club, Coding Club, Member of Anti Ragging Committee, Assists in placement activities, Taking pre-placement classes, Mentoring students, Member of Cultural committee.
7	Kamalesh Karmakar	Joint Coordinator of Coding Club, Member of Institutional NAAC Committee, Member of IIC, Member of Training & Placement Committee for Technical Skill Improvement, Faculty Sponsor TINT ACM Student Chapter, Coordinator TIG- TCSiON of Academic Module.
8	Tanusree Chatterjee	Member of NAAC Committee, Member of Training & Placement Committee for Technical Skill Improvement, Departmental Coordinator of ISTE Student Chapter, Member TIG-TCSiON, Member of Sports Committee.
9	Sanjib Roy	Member of Training & Placement Committee for Technical Skill Improvement
10	Swagata Paul	Setup/Configure/Maintain – a) all Servers at TINT.

b) G-Suite for TINT c) Office 365 d) Moodle server
Manage – a) College website b) College Facebook page c) Other social media pages of TINT

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/National/State/ University/Inter College/ Intra College	Total no of participation
Expert Talk	Nil	_	_	_
FDP	Nil	_	_	_
Seminar	Nil	_	_	_
Workshop	1	2 Days (21/12/21- 22/12/21)	Inter College	52
Conference	Nil	-	_	_

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

Total numb	Duration	International/National/State/Un iversity/Inter College/ Intra College	Total no of participation
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Expert Talk	Nil	_	_	-
FDP	10	Variable	National/State/University	3
Seminar	Nil	-	-	_
Workshop	Nil	-	-	-
Conference	8	2/3 Days	International	5

P. ACHIEVEMENTS OF THE STUDENTS/FACULTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES

Sl. No.	Event Description	Organized by	Student Name	Faculty Name	International/National/ State/University/Inter College/ Intra College
1	HACK-A-DAY 2022	ACM Kolkata	Sidhant singh, Souvik Sarkar, Rohit Singh	Debraj Chatterjee	State
2	Send best paper presentation	International Conference for Data Management Analytics and Innovation ICDMAI		Arghya Kusum Das	International
3	1st place in HACKTONIX	HACKATHON conducted by Future Institute Sonarpur	Souvik Pramanik		State
4	2nd position in the Cyberthon	IEM (INNOVACION 2022.)	Suranjan Saha, Pritam Bhattacharya, Sayak Karar		State
5	3rd position in Texibition	Brainware University	Souvik Pramanik		State

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION: 3 R. NO. OF STUDENTS PLACED: 76

Sl. No	No. Of Students	No. of Eligible student	OnCampus Placed	OffCampus Placed	Total Placed	Percentage of placed candidates in terms of elegible candidates(%)
1	102	83	74	2	76	92

S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	BIKASH CHANDRA SADHUKHAN	Assistant Professor
2	SWAGATA PAUL	Assistant Professor
3	ARGHYA KUSUM DAS	Assistant Professor
4	NABANITA DAS	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes/No

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- 1. Subject Allocation
- 2. Lesson plans
- 3. Syllabus Coverage
- 4. Mentoring
- 5. Any other information

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT.	INT. JOURNAL		BOOK CHAPTER	AUTHORED BOOK	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI			
Faculty only	2	12	5	0	0	14
Student-Faculty	3	0	0	0	0	3

V. STUDENT PROJECT MENTORING SYSTEM

PROJRCT ALLOCATION PROCESS	 The entire batch is divided into different groups ,each having 5 members . This is done after sorting the results in descending order based on merit and then allocating members to groups such that every project group has equally merited students. Next,project groups formed on the basis of merit are disseminated with the list of topics . The groups are called for topics assignment in the order of their academic merit based on the SGPA grade points. Topics are allocated to the project group based on merit. 				
NO OF PROJECT GROUPS	23				
NO OF PROJECT PROGRESS REPORTS SUBMITTED	23				

W.DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved
NIL					

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- Course specific awareness of objectives and outcomes to the students
- Use of Moodle Software to Online Course Design and Examination in some courses.
- Active participation of students in ACM Student Chapter and ISTE student chapter formed in the institute
- Tie up with AWS to conduct courses on AWS cloud environment and encourage student certification

Z.VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with 30 or more contact hours) offered	Duration of course (Hours)	Number of students enrolled in the year	Number of Students completing the course in the year	Remarks
1.	Employability Enhancement Program	30 Hours	102	95	
2.	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	30 Hours	140	133	
3.	Programming for complex problem solving using pseudocode	30 Hours	140	134	
4.	Android Application Development	30 Hours	140	140	
5.	Business Analytics	30 Hours	214	203	
7.	Computer Fundamentals, Installations and Maintenance	30 Hours	178	163	

AA. SWOC ANALYSIS:

SWOC	ANALYSIS
STRENGTH:	a) Online classes can be stretched into late hours with flexible timings as per the suitability of students and faculty members.
	b) A blended mode of teaching and learning with online theory classes and offline laboratory classes was explored with good success and response.
WEAKNESS:	a) Final year students after getting placement lose interest in the courses of the curriculum.
OPPORTUNITIES:	a) Artificial Intelligence and Machine Learning (AIML) being a new stream introduced with an intake capacity of 60 gives students another stream to choose keeping in mind the latest trend in technological advancement.
CHALLENGES:	a) Those students who are yet to be placed are more concerned and involved with the preparation and less focus on the curriculum.

Techno International New Town	
Academic Audit Evaluation Report Department of Computer Science and Engine	ering
Assessment Year (3 Years): AY 2019-20, 2020-21, 2021-22	e

Clause No	Score in 5 point sca	scale (Full Marks: 130) Remarks			
	Internal Audit	External Audit			
Α	5	5			
В	4	4			
С	5	5			
D	4	4			
E	4	4			
F	4	4			
G	4	4	x		
H	4	A			
I	4	4			
J	A	4			
K	4	4			
L	4	3			
М	Å	4			
N	4	4			
0	A	4			
P	4	4			
Q	4	4			
R	4	4			
S	4	4			
T	4	4			
_U	3	.3			
V	4	4			
W	0	0			
x	0	0			
Y	4	4			
Z	4	4			
AA	4	4			
Total	101	100			

SI. No.	Name	Affiliation	Signature
External Auditor	DR. PINAKPANI PAL	PROFESSOR, ISI, KOLKATA	Bakkai Hal
Internal Auditor	PROF. SWAGATA PAUL	ASST PROFESSOR, TINT	Surgenter Poul
Internal Auditor	PROF. NABANITA DAS	ASST PROFESSOR, TINT	Kaban B Que
HOD	PROF. BIKASH SADHUKHAN	ASST PROFESSOR, TINT	- Hardhukham
IQAC Coordinator	. PROF. AYAN CHAKRABORTY	ASST PROFESSOR, TINT	
Director	DR. R.T.GOSWAMI	DIRECTOR, TINT	Rivernit
			V



Rinakspeni Ral Name and Signatures of Internal Auditors

Name & Signature of the IQAC Coordinator

1. SWAGATA PAUL Swagoota Paul

2. NABANITA DAS Nabanik Jan

PROF AYAN CHAKRABORTY

Name & Signature of the HoD

Ballwerter

PROF. BIKASH SADHUKHAN

Bikash Sadhukhan H.O.D. - C.S.E. Dept Techno International New Town Formerly (Techno India College of Technology) Block-DG, AA-1, New Town, Rajarhat, Kol. - 156



EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT

AY - 2021 - 2022

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (Date of Audit: February 16, 2022)



TECHNO INTERNATIONAL NEW TOWN

BLOCK - DG 1/1, ACTION AREA 1, NEW TOWN, KOLKATA - 700156

A. DEPARTMENT DETAILS

Name of Department:	Electronics and Communication Engineering							
Name of Programme:	B. Tech							
Academic year	2021-22							
Student Intake	120 + 24 = 144							
No. of enrolled student	107 + 3 = 110							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	7 6 9 8 9 8							
No. of Practical classes offered			3	5	3	3	2	2

B. FACULTY/STAFF STRENGTH: 19

C.	STUDENT FACULTY RATIO	:	22.73
D.	NO. OF LABORATORIES	:	13

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	Basic Electronics Lab1	30	DC regulated variable power supply Dual channel (qty-2)		
2	Basic Electronics	30	TAT Kit (qty-4)		
			DC regulated variable power supply Dual channel (qty-2)		
3	Circuit Theory	30	TAT Kit (qty-4)		
	Lab & Sond State	b	Fixed Power Supply (qty-2)		
			PC (qty-9)		
4	Signal & System	30	PC (qty-28)		
	Network Lab (EC		12 Volt/26Ah Battery (qty-20)		

	692)		UPS (qty-1)	
5	Analog Electronics Lab (EC 492) or Electronics Devices Lab (EC 391)	30	DC regulated power supply dual Channel (qty-3)	
			DC regulated power supply single Channel (qty-2)	
			CRO (qty-1)	
			DSO (qty-1)	
			Function Generator (3MHz) (qty-1)	
			TAT Kit (qty-2)	
6	Antenna Lab (EC 491) New Syllabus (EC 591)	30	R.F Antenna trainer kit (qty-3)	
			Antenna trainer kit with microwave test bench (qty- 2)	
			3GHz Spectrum Analyzer (qty-1)	
7	Digital Electronics Lab (EC 492) or New Syllabus Digital System Design Lab (EC 392)	30	Digital Trainer Kit (qty- 8)	
			Digital to Analog Conversion Kit (qty -1)	
			Analog to Digital Conversion Kit (qty-1)	
			DC regulated fixed power supply single channel (qty - 4)	
			IC Tester (qty-1)	
			UP Down Counter Kit (qty- 1)	
8	Communication Engg. Lab (EC 591 & EC 691) New syllabus (EC 491 & EC 592)	30	DC regulated power supply dual Channel (qty 4)	
			Function Generator (100 µHz to 40 MHz) (qty-1)	
			Function Generator (3MHz) (qty-1)	
			Function Generator (25MHz) (qty-1)	
			CRO 30MHz (qty-3)	
			DSO (colour) (qty-3)	
			Audio Distortion meter (qty-2)	
			DSB - SSB Transmitter	

			(qty-3)	
			DSB - SSB Receiver (qty- 3)	
			Frequency Modulation & Demodulation trainer kit (qty-3)	
			3 GHz Spectrum Analyzer (qty-1)	
			PN Sequence trainer kit (qty-1)	
			PCM Trainer kit (qty-5)	
			Delta & Adaptive delta modulation and demodulation trainer kit (qty-1)	
			QPSK/DQPSK trainer kit (qty-2)	
9	Microprocessor Lab1 & Lab2(EC-592) New Syllabus(EC493)	30	Microprocessor (8085) ESA kit with power supply (qty- 6)	
			Microprocessor (8085) NV55 kit (qty-2)	
			EPROM Eraser (qty-1)	
			ESA make DC motor interface (qty-1)	
			ESA make DC motor interface (qty-2)	
			ESA make stepper motor (qty-1)	
10	Control, DSP & VLSI Lab (EC- 593, EC 692, EC 792) New Syllabus (EC 691, EC 593)	30	INSTAKE make model GFG-3015 programmable 15MHz Function Generator (qty-1)	
			INSTAKE make model GDS-2102 100 MHz digital storage oscilloscope with color TFT display (qty-1)	
			VLSI Trainer (qty-1)	
			Projector (qty-1)	
			UPS (qty-1)	
11	Microwave Lab (EC 793A)	30	Klystron Power Supply (qty-1)	
			Klystron tube with Klystron mount (qty-1)	
	Gunn Power Supply (qty-2)			
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	Gunn Oscillator (qty-2)			
	PIN Modulator (qty-2)			
	Isolator (qty-2)			
	Variable Attenuator (qty-2)			
	Frequency Meter (qty-2)			
	Slotted Section (qty-2)			
	Tunable Probe (qty-2)			
	SS Tuner (qty-2)			
	Detector Mount (qty-2)			
	Movable Short (qty-2)			
	Precision Short (qty-1)			
	Matched Terminator (qty-2)			
	Phase Shifter (qty-1)			
	E Plane, H Plane and Magic Tee (qty- 1 each)			
	3 d B Coupler (qty-1)			
	10 d B and 20 d B Coupler (qty -1 each)			
	Liquid Dielectric Cell (qty- 1)			
	Solid Dielectric Cell (qty-1)			
	VSWR Meter (qty-2)			
	3 GHz Spectrum Analyzer (qty-1)			
	Pierce Crystal Oscillator trainer kit (qty-1)			
	Band Pass and Band Reject filter kit (qty-1)			
	NPN Colpitt's crystal Oscillator kit (qty-1)			
	Hartley LC Oscillator kit (qty-1)			
	Mixer Circuit (qty-1)			
	Low Pass and High Pass filter Kit (qty-1)			
	Clapp Oscillator Kit (qty-1)			
	Tuned Amplifier (qty-1)			

			IF Amplifier (qty-1)		
			Active & Passive micro strip component module (qty-2)		
12	12 Project Lab (EC 30		PC (qty-4)		
	/82)		DSO (qty-1)		
			Projector (qty-1)		

F. DETAILS OF ICT TOOLS : Projector, PC with internet, MS Team, Moodle

G. FACULTY DETAILS

S. No	Name of the Faculty Member	Highest Qualification With Specialization	Experience (Years)	Roles & Responsibilities	Designation	Date of Joining
1.	Prof.(Dr.) Manabendra Maiti	Ph.D. (Microwave Propagation)	23	NBA/NAAC, departmental research	Associate Professor	7/3/2017
2.	Prof.(Dr.) Pradip Kumar Ghosh	Ph.D. (Electron Devices)	25	NBA/NAAC, departmental research	Professor	16/3/2018
3.	Prof. Subhankar Bhattacharjee	Ph.D.(Tech)	21	Students Result Analysis, Mark sheet related Issues, Exam Challan, Mark sheet distribution	Assistant Professor	1/2/2006
4.	Prof. Ardhendu Shekhar Biswas	M.Tech. (Radio Physics and Electronics)	21	Departmental budget, BoG and other report, lab requisition	Assistant Professor	12/2/2007
5.	Prof. Md. Anoarul Islam	M.Tech. (Communication)	17	Mentoring supervision, Faculty/ students Research Publication, External event achievements by the students	Assistant Professor	19/10/200 6
6.	Prof. Attreyee Mandal	M.Tech. (Communication)	16	Students Result Analysis, Mark sheet related Issues, Exam Challan, Mark sheet distribution	Assistant Professor	2/2/2007
7.	Prof. Joyati Chattopadhyay	M.Tech. (Communication)	16	Departmental extracurricular program (Engineers day, teachers day, fresher's welcome, students farewell etc)	Assistant Professor	6/10/2007
8.	Prof. Sandip Bhattacharya	M.Tech. (VLSI and Microelectronics)	14	Training placement, Departmental extracurricular program (Engineers day, teachers day, fresher's welcome, students farewell etc)	Assistant Professor	2/4/2009

9.	Prof. Vivekananda Mukherjee	M.Tech. (Mechatronics)	15	Training placement, Admission promotion, Project competition/Co- curricular activities	Assistant Professor	3/7/2013
10.	Prof. Judhajit Sanyal	M.Tech. (Radio Physics and Electronics)	15	15 Students Result Analysis, Mark sheet related Issues, departmental research		29/6/2016
11.	Prof. Arup Kumar Ghosh	M.Tech. (Electron Device)	22	Departmental extracurricular program (Engineers day, teachers day, fresher's welcome, students farewell etc)	Assistant Professor	8/6/2016
12.	Prof. Atanu Chakraborty	M.E. (Illumination)	13	Routine/class execution report/Class room supervision	Assistant Professor	21/8/2010
13.	Prof. Dipshika Das	M.Tech. (VLSI and Microelectronics)	11	Routine/class execution report/Class room supervision	Assistant Professor	27/7/2011
14.	Prof. Trilochan Patra	M.Tech. (Communication)	11	Routine/class execution report/Class room supervision, alumni record	Assistant Professor	27/7/2011
15.	Prof. Salini Bose	M.Tech.	4	Class supervision	Assistant Professor	12/1/2019
16.	Prof. Dr. Chandi Pani	M.Tech, Ph. D	20	Class supervision, NBA, NAAC	Professor	2/8/2021
17	Prof. Dr. Manash Chanda	M.Tech, Ph. D	16	Class supervision, NBA, NAAC	Associate Professor	2/8/2021
18.	Prof. Suchismita Mondal	M.Tech. (ECE)	2	Class supervision	Assistant Professor	3/8/2020
19.	Prof. Sudipta Paul	M.Tech, Ph. D	2	Class supervision	Assistant Professor	4/1/2021

H. CHOICE BASED ELECTIVE COURSE

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students
5	7	4	2
6	7	4	2
7	12	8	4
8	12	8	5

I. COURSE DELIVERY:

Voor/	Fro	m Core Dep	ot.	Fro	m Other D	ept.	J	To Other Dept.			
Semester (Theory & Labs)	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits		
Ι											
Π											
III	8	4+2	12+2	4	3+1	6+1	3	2+2	6+2		
IV	6	3+3	9+3	4	2+2	5+2					
V	10	5+3	15.5+3	4	2+0	3+0					
VI	11	4+3	12+4	4	2+0	3+0					
VII	11	3+2	9+5	4	2+0	5+0					
VIII	11	4+2	12+9	1	1+0	3+0					

J. WORKLOAD DETAILS:

S. No	Name of the faculty	Name(s) of the Theory/Lab		No. of Courses		lo. of eriods	Credits	Complet ion
	member		Т	Р	Т	Р		Status
		Electromagnetic Waves (EC501), Electromagnetic Wave Lab (EC591), SATELLITE COMM. (PE EC-701B), Project Stage- I (EC 781)	2	2	5	10	15	
1.	Manabendra Maiti	Analog Communication (EC401), Analog Communication Lab (EC491), Project part-2(EC882), Fiber optic communication (OE- EC801B), Mini Project/Electronic Design	2	3	6	14	20	Complete

		Workshop (EC681)						
2	Prof.(Dr.) Pradip	Digital Communication & Stochastic Process (EC-503), Digital Communication Lab (EC-592), Project Stage- I (EC 781), Signal & System (EC- 303)	2	2	8	10	18	Complete
2.	Kumai Onosh	Error correcting codes (PE- EC801C), Analog Communication Lab (EC491), Project part-2(EC882), Mini Project/Electronic Design Workshop (EC681)	1	3	4	14	18	Complete
	Prof. (Dr.)	Digital Communication & Stochastic Process (EC503), EMBEDED SYSTEM(PE- EC703A), Project Stage- I(EC781), Digital Communication Lab (EC593)	2	2	8	10	18	
3.	Subhankar Bhattacharjee	Operating System (OE604B), Microprocessor & Microcontrollers lab (EC493), IOT(OE-EC803A), Project Part-2(EC882), Mini Project/Electronic Design Workshop (EC681)	2	3	7	14	22	Complete
	Prof. Ardhendu Shekhar Biswas	Digital Signal Processing (EC-504), Mobile Communication & Networks (PE EC 701C), Digital Signal Processing Lab (EC-593), Project Stage- I (EC 781)	2	2	8	10	18	
4.		Analog Communication (EC401), Analog Communication Lab (EC491), IOT(OE-EC803A), Mini Project/Electronic Design Workshop (EC681), Project part-2(EC882)	2	3	8	14	22	Complete
5.	Prof. Md. Anoarul	Digital System Design (EC- 302), Digital System Design Lab (EC-392), Electromagnetic Waves (EC501), Project Stage- I (EC 781)	2	2	7	10	17	Complete
5.	Islam	Analog Electronics Circuits (EC402), Analog Communication lab (EC491), Project part-2 (EC882), Mini Project/Electronic Design Workshop (EC681)	1	4	2	20	22	
6.	Prof. Attreyee Mandal	Network Theory (EC-304), Analog & Digi. Electronics (CS-301), Analog & Digi. Elect. Lab (CS-391), Project Stage- I (EC 781)	2	2	6	10	16	Complete

		Error correcting codes (PE- EC801C), Control and Instrumentation Laboratory (EC691), Project part- 2(EC882), Mini Project/Electronic Design Workshop (EC681)	1	3	4	14	18	
		Digital System Design (EC- 302), Digital System Design Lab (EC-392), Digital Communication Lab (EC- 592), Project Stage- I (EC 781)	1	3	4	16	20	
7.	Prof. Joyati Chattopadhyay	Microprocessor & Microcontrollers (EC-302), Microprocessor & Microcontrollers lab (EC- 392), Project part-2(EC882), Digital Communication Lab (EC-592), Project Stage- I (EC 781)	1	3	2	20	22	Complete
		Digital Signal Processing Lab (EC-593), Project Stage- I (EC 781), Nano Electronics (PE- EC505A) Project Stage- I Nano Electronics	1	2	6	16	22	
8.	Prof. Sandip Bhattacharya	CMOS VLSI Design (PE- EC603C), Microprocessor & Microcontrollers lab (EC493), Microprocessor & Microcontrollers (EC403), Mini Project/Electronic Design Workshop (EC681), Project part-2(EC882)	2	3	6	14	20	Complete
		Analog & Digital. Electronics (CS-301), Analog & Digi. Elect. Lab (CS-391), Electronic Devices Lab (EC- 391), Project Stage- I (EC 781)	1	3	3	16	19	
9.	Prof. Vivekananda Mukherjee	Analog Electronics Circuits (EC402), Analog Electronics Circuits Lab (EC402), Artificial Intelligence (OE- EC804A), Mini Project/Electronic Design Workshop (EC681), Project part-2(EC882)	2	3	7	14	21	Complete
10.	Prof. Judhajit Sanyal	Neural Networks & Fuzzy Logic Control (PE-EC702C), Web Technology (OE- EC704A), Electromagnetic Waves (EC501), Electromagnetic Wave Lab (EC591), Project Stage- I (EC 781)	3	2	9	10	19	Complete

		Fiber optic communication (OE-EC801B), Computer Network Lab (EC692), Mini Project/Electronic Design Workshop (EC681), Project part-2(EC882)	1	3	3	14	17		
	Prof. Arup Kumar Ghosh	Electronic Devices (EC-301), Project Stage- I(EC 781), Electronic Devices Lab(EC- 391), GATE-Class	2	2	8	10	18		
11.		Control System and Instrumentation (EC601), Control System and Instrumentation (EC691), Project part-2 (EC882)	1	3	8	16	24	Complete	
	Prof. Atanu	SIGNAL & SYSTEM(EC- 303), Digital Signal Processing (EC-504), Digital Signal Processing Lab (EC- 593), Project Stage- I (EC 781)	2	2	8	10	18		
12.	Chakraborty	Computer Network (EC602), Computer Network Lab (EC692), Project part-2 (EC882), Mini Project/Electronic Design Workshop (EC681)	1	3	4	14	18	Complete	
	Prof. Dipshika Das	ANALOG & DIGI. ELECTRONICS(CS-301), ANALOG & DIGI. ELECT. LAB(CS-391), Embedded Systems (PE EC 703A), Project Stage- I (EC 781)	2	2	7	10	17		
13.		VLSI Design Automation (PE-EC802C), Microprocessor & Microcontrollers lab (EC493), CMOS VLSI Design (PE- EC603C), Project part- 2(EC882), Mini Project/Electronic Design Workshop (EC681)	2	3	8	14	22	Complete	
14.	Prof. Trilochan Patra	ANALOG & DIGI. ELECTRONICS(CS-301), ANALOG & DIGI. ELECT. LAB(CS-391), Basic Electronics Engineering (ES- ECE301), Project Stage- I (EC 781)	2	2	7	10	17	Complete	
		Computer Network Lab (), Operating System (OE604B), Mini Project/Electronic Design Workshop (EC681), Project part-2 (EC882)	1	3	3	14	17		
15.	Prof. Salini Bose	Network Theory (EC-304), Electronic Devices Lab (EC- 391), Digital Communication	1	3	2	16	18	Complete	

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		Lab (EC-592), Project Stage- I (EC 781)						
		(EC 781) Control System and						
		Leastman (EC601)						
		Control on d Instrumentation						
		Control and Instrumentation	1	2	4	14	10	
		Laboratory (EC691), Mini	I	3	4	14	18	
		Project/Electronic Design						
		Workshop (EC681), Project						
		part-2 (EC882)						
		Neural Networks & Fuzzy						
		Logic Control (PE-EC/02C),						
		Electromagnetic Wave Lab	1	3	3	16	19	
		(EC591), Digital						
		Communication Lab (EC-						
16.	Prof. Dr. Chandi	592), Project Stage- I(EC/81)						Complete
	Pani	VLSI Design Automation						1
		(PE-EC802C), Computer						
		Network Lab (EC692), Mini	1	3	4	14	18	
		Project/Electronic Design		_				
		Workshop (EC681), Project						
		part-2(EC882)						
		Satellite Communication (PE						
		EC701B), Digital						
		Communication Lab (EC-	1	3	3	16	19	
		592), Digital Signal	-	U	C	10		
		Processing Lab(EC-593),						
17	Prof. Dr. Manash	Project Stage- I(EC 781)						Complete
	Chanda	Analog Electronics Circuits						compiete
		(EC402), Computer Network						
		Lab (EC692), Project part-2	1	3	1	14	15	
		(EC882), Mini	1	5	1	11	15	
		Project/Electronic Design						
		Workshop (EC681)						
		Mobile Communication &						
		Networks (PE-EC701C),						
		Electronic Devices Lab (EC-	2	2	7	10	17	
		391), Web Technology (OE	-	-	,	10	1,	
		EC 704A), Project Stage- I						
18.	Prof. Suchismita	(EC 781)						Complete
	Mondal	Computer Network (EC602),						
		Computer Network Lab						
		(EC692), Mini	1	3	4	14	18	
		Project/Electronic Design	_	-	-			
		Workshop (EC681), Project						
		part-2 (EC882)						
		Electronic Devices (EC-301),						
		Network Theory (EC-304),	•	•	0	10	10	
		Electromagnetic Wave Lab	2	2	8	10	18	
		(EC591), Project Stage- I(EC						
		(781)						
19.	Prof. Sudipta Paul	Artificial Intelligence (OE-						Complete
		EC804A), Control and						1
		Instrumentation Laboratory		~			10	
		(EC691), Project part-	1	3	4	14	18	
		2(EC882), Mini						
		Project/Electronic Design						
		Workshop (EC681)						

K.COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared			6	3	5	4	3	4	25
No. of courses for which course lesson plans are not prepared			0	0	0	0	0	0	0
No. of courses verified by internal verifier (Senior Faculty/HOD)			6	3	5	4	3	4	25
No. of courses for which the Lesson Plans are modified after verification			0	0	0	0	0	0	0
No. of courses not verified			0	0	0	0	0	0	0

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

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Whether the mentors are updating mentor books and conducting counseling meetings regularly or not? Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1.	Prof.(Dr.) Subhankar Bhattacharjee	18700320044 - 18700320062	17	26	To identify slow/fast
2.	Prof. Ardhendu Shekhar Biswas	18700318011 - 18700318029	18	26	learner and action taken
3.	Prof. Arup Kumar Ghosh	18700318051 - 18700318070	19	26	
4.	Prof. Md Anoarul Islam	18700319095 - 18700320070	24	26	
5.	Prof. Joyati Chattopadhyay	18700319067 - 18700319094	25	26	
6.	Prof. Attreyee Mandal	18700319038 - 18700319066	25	26	
7.	Prof. Vivekananda Mukherjee	18700320020 - 18700320043	18	26	
8.	Prof. Atanu Chakraborty	18700318030 - 18700318050	19	26	
9.	Prof. Sandip Bhattacharyaa	18700319009 -18700319037	25	26	
10.	Prof. Dipshika Das	18700319016 - 18700320019	19	26	
11.	Prof. Trilochan Patra	18700318071 - 18700319118	19	26	
12.	Prof. Dr. Manash Chanda	18700320063 - 18701320010	16	26	

M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

Sl. No.	Faculty Name	Cell/Committee/Club
1.	Prof.(Dr.) Manabendra Maiti	NAAC, Institutional and departmental academic committee
2.	Prof.(Dr.) Pradip Kumar Ghosh	NAAC, DAC and research committee, IIC
3.	Prof. (Dr.) Subhankar Bhattacharjee	DAC and research committee, Exam Cell member, IIC
4.	Prof. Ardhendu Shekhar Biswas	EDC, DAC and research committee, IIC, Club of performing art
5.	Prof. Anoarul Islam	DAC, Departmental NBA coordinator, IPR, Photography club
6.	Prof. Attreyee Mandal	DAC
7.	Prof. Joyati Chattopadhyay	Departmental clause coordinator NAAC, DAC, Kanyasree club
8.	Prof. Sandip Bhattacharya	Anti-ragging committee, DAC, Cultural committee, Cine club, Placement cell, Aesthetica
9.	Prof. Vivekananda Mukherjee	Disciplinary committee, DAC, Cultural committee, Placement cell, Coding club
10.	Prof. Judhajit Sanyal	DAC, Departmental research committee
11.	Prof. Arup Kumar Ghosh	DAC, Routine committee, Sports committee, Science and tech club
12.	Prof. Atanu Chakraborty	DAC, Routine committee, Sports committee, TINT Hikers and Planeteers
13.	Prof. Dipshika Das	DAC
14.	Prof. Trilochan Patra	DAC
15.	Prof. Salini Bose	
16.	Prof. Dr. Chandi Pani	NAAC, NBA
17	Prof. Dr. Manash Chanda	NBA
18.	Prof. Suchismita Mondal	
19.	Prof. Sudipta Paul	

N. EXPERT TALK/FDP/ SEMINAR/ CONFERENCE/ WORKSHOP ORGANISED

	Total number	Duration	International/ National/ State/ University/ Inter College/ Intra College	Total no of participation
Expert Talk (webinar)	1(5.5.2022)	1 day	Intra college	58 students
FDP				
Seminar				
Workshop				
Conference				

O. EXPERT TALK/ FDP/ SEMINAR/ CONFERENCE/ WORKSHOP ATTENDED

Total number	Duration	International/ National/ State/	Total no of
		University/ Inter College/ Intra	participation

			College	
Expert Talk				
FDP	2	2 days		2
Seminar	2	2 days		120 Students and 1 faculty member
Workshop	1	2 days		1
Conference	5		International / National	5

P. ACHIEVEMENTS OF THE STUDENTS/ FACULTY MEMBERS IN EXTRA/ CO CURRICULAR ACTIVITIES

Sl. No.	Event Description	Organised by	Student Name	Faculty Name	International/ National/ State/ University/ Inter College/ Intra College
1	1 st position in "PRAYAS – 2022" Technical article writing competition	MCKV, Howrah	Debasish Ganguly and Pradipta Karmakar	Prof. Attreyee Mondal	Inter College
2	Selected for Workshop organized by MSME	MSME & TINT	Katha Ghosh, Abhirup Bhattacharyya, Siddhartha Rakshit, Sayantan Das, Aratrika Chatterjee, Karina Sarkar, Souradeep Patra	Prof. Sandip Bhattacharya	Intra College

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION : 3

- **R.** NO. OF STUDENTS PLACED
- S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1.	Prof.(Dr.) Manabendra Maiti	Associate Professor & HoD
2.	Prof.(Dr.) Pradip Kumar Ghosh	Professor
3.	Prof. (Dr.) Subhankar Bhattacharjee	Assistant Professor
4.	Prof. Ardhendu Shekhar Biswas	Assistant Professor
5.	Prof. Md Anoarul Islam	Assistant Professor
6.	Prof. Attreyee Mandal	Assistant Professor
7.	Prof. Joyati Chattopadhyay	Assistant Professor
8.	Prof. Sandip Bhattacharya	Assistant Professor
9.	Prof. Vivekananda Mukherjee	Assistant Professor
10.	Prof. Judhajit Sanyal	Assistant Professor
11.	Prof. Arup Kumar Ghosh	Assistant Professor
12.	Prof. Atanu Chakraborty	Assistant Professor

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13.	Prof. Dipshika Das	Assistant Professor
14.	Prof. Trilochan Patra	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- 1. Subject Allocation
- 2. Lesson plans
- 3. Syllabus Coverage
- 4. Mentoring
- 5. Any other information

Comments of the auditor:

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT. CONFERENCE	JOURNAL		BOOK CHAPTER	AUTHORED BOOK	TOTAL
		SCOPUS	SCI/ ESCI/ UGC			
Faculty only	04		04			08
Student-Faculty			01			01

V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	The allotment of the project is carried out through the steps mentioned as follows: Students are advised to distribute in groups as per their choice. Each group consists of 4/5 members. The Departmental Project Coordinator provides 5-6 project areas to the students. All the groups have to fill their preferences. Based on their choice of area, mentors are allocated. Once project allocation is completed students are allowed to start their project.
NO OF PROJECT GROUPS	17
NO OF PROJECT PROGRESS REPORTS SUBMITTED	17

W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS
	NIL		

X. DETAILS OF IPR

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- Adequately exposure to Vision, Mission, PEOs, POs and PSOs
- Course specific exposure to objectives and outcomes
- Deputation of faculty members to attend FDP
- Encourage attending seminar / conferences
- Encourage faculty and technical staff members for higher education
- Remedial classes for weaker students
- Exposure to real life problems and environments, case study discussion
- Conduct program on domain knowledge expert lectures
- Presentation, demonstration, group discussion, brainstorming, quizzing
- Lecture by eminent personalities
- Good language lab practices, Soft skill training
- Pre-placement training
- Career guidance for higher studies, training and placement
- Special counseling classes for GRE, GATE, CAT
- Facilitate free and open learning environment
- Facilitates co-curricular and extra-curricular activities
- Mentoring system Professional, career advancement, course specific guidance
- Alumni interaction / share experiences with present students through special lectures
- Students feedback and action
- Learn While You Teach
- Your Laboratory and the Society
- Components Laboratory
- Set up extramural experiments through project work
- In-house Faculty Development Program
- NPTEL Course Mentoring
- Use of Moodle Software to Online Course Design and Examination (<u>http://aaaa.msit.edu.in</u>)
- Use of YouTube and WordPress to design Video Lecture and Power Point based Course

Comments of the Auditor:

Z. VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with 30 or more contact hours) offered	Duration of course (Hours)	Number of students enrolled in the year	Number of Students completing the course in the year	Remarks
1.	PRE PLACEMENT TRAINING-INCLUDING SOFT-SKILL, APTITUDE, PSEUDO CODE by MOHIT JAIN & TEAM	45	75	75	Online Mode
2.					

SWOC	
STRENCTH.	ANALYSIS
ornehorn:	 Dedicated and quality Faculty
	 Quality of laboratories
	 Advanced student projects and R & D focus/publications
	• Emphasis on Hands-on training for students
	Unity, coordination and expertise among faculty members and
	technical staff
WEAKNESS:	• Need to conform to university curriculum honce no flowibility in
	curriculum design
Oppon	
OPPORTUNITIES:	
	 Possibilities of great enhancement in technical quality of students
	through partnership programs with government institutions and companies
	• The department is in a position to impart specialized skills in the
	broad areas of VLSI Design, Communication Engineering and
	Information Technology in domains such as IoT, Machine
	Learning and AI
	• Entropropourship and start and it is
	• Entrepreneurship and start-up activities among students.
CHALLENGES:	
	• To ensure the relevance of technical skill imparted to students as
	per the requirements of industry, company and academic/research institutions

Comments of the auditor:

Name and Signatures of Internal Auditors

Name & Signature of the IQAC Coordinator

Professor P. K. Ghosh Internal Auditor

Professor Subhankar Bhattacharjee

Internal Auditor

IQAC Coordinator

Dhahabuf. Abahabuf lahar f

Name & Signature of the HoD

Professor Ayan Chakraborty

Professor M. Maiti

Head, Department of ECE

COAM.

Techno International New Town Academic Audit Evaluation Report



Assesment Year (3 yrs.): 2019-20, 2020-21, 2021-22

Clause No.	Score in 5 point 1	Remarks	
B	Internal Auditor	External Auditor	Nonin Ka
В	4	3.1	
С	5	0.0	
D	5	1.8	
E	4	2.0	
F	5	3.8	
G	5	1.9	
Н	5	5.0	
1	5	: 2.0	
J	5	1.0	
к	5	1.2	
L	5	2,0	
м	5	4:5	
N	4	3,0	
0	4	3.5	
Р	5	1.5	
Q	5	1.5	
R	5	1.8	
S	5	510	
Т	5	1.8	
U	5	5.0	
V	5	<u> </u>	
W	0	-	
х	0	1-	
Y	5	4.9	
Z	5	1.7	
AA	5	1.5	
TOTAL	116	104.1	

External Auditor	Name CALANCHIAL DAY	Designation	Affiliation L.V.	Signature
Internal Auditor	Prof.(Dr.) Pradip Kumar Ghosh	Professor	TINT	Toxich.
Internal Auditor	Prof. (Dr.) Subhankar Bhattacharjee	Associate Professor	TINT	Subhe-la Philadija

;

Associate Professor Department of Applied Physics University of Calcutta

IQAC Coordinator	Prof.(Dr.) Ayan Chakraborty	Associate Professor	TINT	Arsting
HoD	Prof.(Dr.) Manabendra Maiti	Associate Professor	TINT	agente '
Director	Prof.(Dr.) R. T. Goswami	Director	TINT	alon mil

;

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STRENGTH:	>Dedicated and quality Faculty
	>Quality of laboratories
	>Advanced student projects and R & D focus/publications
	>Emphasis on Hands-on training for students
	>Unity, coordination and expertise among faculty members and technical staff
WEAKNESS:	>Need to conform to university curriculum, hence no flexibility in curriculum design
OPPORTUNITIES:	>Possibilities of great enhancement in technical quality of students through partnership programs with government institutions and companies >The department is in a position to impart specialized skills in the broad areas of VLSI Design, Communication Engineering and Information Technology in domains such as IoT, Machine Learning and AI >Entrepreneurship and start-up activities among students.
CHALLENGES:	>To ensure the relevance of technical skill imparted to students as per the requirements of industry, company and academic/research institutions

Comments of the auditor:

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Name and Signatures. 1. DUWOH. 2. (Prof. P.K. Ghosh) 2. Sublankußle Herty: (Dr. Subhankler Bhellnely) DROMANABENDRAMAITI Name & Signature of the IOAC Coordinator Dr. Ayon Chakreebor Rochabery 2 pm Justitud. Associate Professor Department of Applied Physics University of Calcutta

Academic Audit Report Remarks (AY 2019-2020 to 2021-2022) (Date of Audit: 16.02.2022)

	Items	Remarks
А.	DEPARTMENT DETAILS	Department of ECE, Techno International New Town
В.	FACULTY/STAFF STRENGTH	Adequate to meet standard.
C.	STUDENT FACULTY RATIO	Consistently maintaining required ratio
D.	NO. OF LABORATORIES	Lab courses are equipped in 13 laboratories.
E.	DETAILS OF THE EQUIPMENTS IN LABORATORIES	Needs additional instruments/ measuring equipment/ hardware kits and software tools
F.	DETAILS OF ICT TOOLS	There are scopes for improvement although online class performance, conducts seminar/ expert talks/ webinar in MS Team/ Google class are existing.
G.	FACULTY DETAILS	Qualified and highly experienced faculty members with expertise in domain knowledge/ well versed in academic administration are available
H.	CHOICE BASED ELECTIVE COURSE	Limited scope as department follows University regulations. However, in the MAKAUT syllabi, there are good number of Electives that are offered based on students' choice
I.	COURSE DELIVERY	Courses are offered by departmental its own faculty as well as faculties from other service departments. Black board based teaching/ lecture delivery through power point is followed in regular classes. Tutorials/ problem solving classes are held with small class size. Study materials are provided to the students.
J.	WORKLOAD DETAILS	Standard work load pattern is followed. Additionally, for the benefit of students, remedial/ tutorial classes are arranged.
K.	COURSE LESSON PLAN PREPARATION AND VERIFICATION	Standard practice to prepare lesson plan and share to the students
L.	STUDENT MENTORING SYSTEM	The system exists in the department. Some 25 to 30 students are assigned to each Mentor. On an average, two Mentor- Mentee meet takes place in a semester and reports are prepared, suggestive actions taken.
M.	DETAILS OF NON- ACADEMIC RESPONSIBILITY	Faculties are assigned different roles in various committees such as students welfare (Clubs, Sports, Cultural), Anti- ragging, Disciplinary, Placement cell, etc. Also some faculties are members of DAC, IIC, NAAC documentation, etc.
N.	EXPERT TALK/ FDP/ SEMINAR/ CONFERENCE/ WORKSHOP ORGANISED	More numbers of events are expected to be organized in future.
0.	EXPERT TALK/ FDP/ SEMINAR/ CONFERENCE/ WORKSHOP ATTENDED	Faculties are encouraged to attend such events for self- development as well as creating better resources for students. There are scopes for improvements.
P.	ACHIEVEMENTS OF THE STUDENTS/ FACULTY MEMBERS IN EXTRA/ CO CURRICULAR ACTIVITIES	Our students participate in various inter-college technical event competition, extra-curricular activities and earn prizes
Q.	NO. OF STUDENTS OPTED FOR HIGHER EDUCATION	Students are qualified in GATE/ GRE, and opt for higher

		studies in IITs and other reputed Institutes. There are evidences that students have also been selected for higher studies abroad and are pursuing studies.
R.	NO. OF STUDENTS PLACED	Department has very good track record of placements. Students are well placed in reputed MNCs. Records are available with Departmental Placement Coordinator.
S.	DEPT. ACADEMIC COMMITTEE (DAC)	Yes, the committee is functional. It consists of 4 senior faculty members including Head. DAC meeting is conducted on regular basis and records are maintained.
Τ.	MINUTES OF THE DEPT. MEETING	The agenda points normally include all academic matters such as Subject Allocation, Lab performance, Lesson plans, Syllabus Coverage, Mentoring, Assessment and evaluation, organizing seminar, expert talk, etc. All Minutes of Meetings are available in the department records.
U.	DEPARTMENTAL RESEARCH INITIATIVES	Sufficient evidences found that Faculties are engaged in researches, some are registered for doctoral programs. Faculties publish research articles in Journal/ conference with students.
V.	STUDENT PROJECT MENTORING SYSTEM	The process exists. A group of 3-4 students are allotted projects based on students' choice (allotment of the project is based on average CGPA of the group). Project Coordinator assigns the task, takes periodic feedback and oversee the progress of work from ideation to prototype product design. The Guide prepares them for an open presentation in front of the committee.
W.	DEPARTMENTAL PROJECT INITIATIVES	Not yet taken. However, faculties with Ph.D. degrees are in the process of applying funds from outside agencies.
X.	DETAILS OF IPR	- Nil
Y.	BEST PRACTICES FOLLOWED IN THE DEPARTMENT	 Adequate exposure of Institute / Department Vision and Mission Course specific exposure to Course Objectives and Course Outcomes Deputation of faculty members to attend FDP, seminar / conferences, higher education, organizing in-house FDP Remedial/ Tutorial classes for slow/ fast learners Exposure to real life problems and environments, case study discussion, set up extramural experiments through project work Conduct programs on domain knowledge, expert lectures by eminent personalities, soft skill and pre- placement training, career guidance for higher studies Facilitates co-curricular and extra-curricular activities, Mentoring system – Professional, career advancement, course specific guidance Alumni interaction / share experiences with present students through special lectures Students feedback and action taken NPTEL Course Mentoring, special classes for GATE Access to online materials in library
Z.	VALUE ADDED COURSES OFFERED	As a complement to value added courses, Career development, Summer training, Domain knowledge training including Soft Skill Aptitude, etc are conducted
AA.		SWOC

Professor P. K. Ghosh

Professor Subhankar Bhattacharjee

Professor Ayan Chakraborty

Professor M. Maiti

Professor R. T. Goswami

Professor Chanchal Dey

Internal Auditor

Internal Auditor

IQAC Coordinator

Head, Department of ECE

Director, TINT

External Auditor

Philos



EXTERNAL ACADEMIC ADMINISTRATIVE AUDIT 2021-22



TECHNO INTERNATIONAL NEW TOWN

1/1, Service Rd, DG Block (Newtown), Action Area I, Newtown, Chakpachuria, West Bengal 700156

DEPARTMENT OF ELECTRICAL ENGINEERING

A. DEPARTMENT DETAILS

Name of Department:	Electrical Engineering											
Name of Programme:	B. 7	B. Tech				M. Tech						
Academic year	2021-22											
Student Intake	60 9											
No. of enrolled student	21								1			
	Ι	II	III	IV	v	VI	VII	VIII	Ι	II	III	IV
No. of Theory courses offered	3	4	7	6	6	6	5	3	5	5	2	0
No. of Practical classes offered	3	4	3	4	4	3	3	1	3	3	2	3

B. FACULTY/STAFF STRENGTH: 18

C. STUDENT FACULTY RATIO: 17:1 (B.Tech), 5:1 (M.Tech) D. NO. OF LABORATORIES: 11

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	Electrical Machine Lab-I	35	Study of the characteristics of a separately excited DC generator	(i) DC shunt motor 2HP, 220V,1500rpm Va=220V, Ia=8.3A, Vf=220V, If=0.8A (ii) Shunt Generator 1KW, 220V,1500rpm, Va=220V, Ia=4.8A, Vf=220V, If=0.8A (iii) 3 point starter 0.5HP, 220V, 2A (iv) Regulator 1KW, 220V I/P, O/P-0.220V	10/01/2007
2			Study the characteristics of DC shunt motor	(i) DC shunt motor 1/2HP, Va=220V, Ia=2.9A, Vf=220V, If=0.23A, 1500rpm (ii) 3 point starter 0.5HP, 220V, 2A (iii) DC Voltmeter Digital, 0-500V (iv) DC Ammeter Digital, 0-10A	10/01/2007
3			Study of characteristics of compound DC generator	 (i) DC shunt motor 2HP, 220V,1500rpm Va=220V, Ia=8.3A, Vf=220V, If=0.8A (ii) Compound generator 1 Kw,220 Volts 1500 rpm (iii) 3 point starter 0.5HP, 220V, 2A (iv) Rheostat 250Ω, 2A (v) Resistive Load box 1A, 6 Steps 	10/01/2007
4			Measurement of speed of DC series motor as a function of load torque	(i) DC shunt motor 2HP,1500rpm Va=220V, Ia=8.3A, Vf=220V, If=0.5A (ii) DC shunt generator 1KW, 1500rpm, Va=220V, Ia=4.8A, Vf=220V, If=0.8A (iii) Starter 2 point, 2HP, 220V, 8A (iv) Rheostat 2A, 200 Ω (v) Resistive Load box 1A, 6 Steps (vi) DC Voltmeter 0- 300V (vii) DC Ammeter 0-10A (viii) DC Ammeter 0- 0.5A (ix) KDP switch 32A	10/01/2007
5			Polarity test of single phase transformer	(i) Transformer 1KV, close type, 0-220-230V (ii) Voltmeter 0-500V (iii) ICDP switch 16A	10/01/2007
6			Study of different connection of 3Ø transformer	(i) Transformer I/P-220V, 1KVA, 0-110V-O/P (ii) Transformer 2KVA, I/P=440V, O/P=220V (iii) Voltmeter 0-500V (iv) ICTP switch 16A	10/01/2007
7			Study of equivalent circuit of 3Ø induction motor by no load & blocked rotor test	(i) Induction motor with brake drum, spring balance and stand for loading arrangement 2.2 KW (3HP), 1425 rpm, 5A, 415V (ii) Variac 8A, 3Ø, 0-470V (iii) Voltmeter 0-	10/01/2007

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

				500V (iv) Ammeter 0-10A (v) Wattmeter 5/10A, 150/300/600V	
8			Study the performance of wound rotor induction motor under load	 (i) Wound rotor induction motor 3HP, 415V, 1400rpm, rotor voltage 190V, 7A, 50HZ (ii) Generator 1.5KW, Va=220V, Ia=4.3A, Vf=220V, If=0.8A (iii) Starter O/P-3ph, 415V, rotor volt= 190V, 4.5A, rotor current-1-7A (iv) Regulator 1HP, 700Ω, 0.3A (v) ICTP switch 16A (vi) DC Voltmeter 0-250-500V (vii) DC Ammeter 0-10A (viii) DC Ammeter 0-0.5A 	10/01/2007
9			Power Supply(DC)	I/P-3Ø,400-415-440V AC, O/P-220V DC capacity-40A	10/01/2007
10	Machines Lab -II	35	Different method of starting of a 3Ø squirrel cage Induction Motor & their comparison (DOL, Auto transformer & star delta) -	 (i) Induction Motor- 3Ø, 415V, 1500rpm, 5A (ii) Star- Delta Starter - 415V, Type-NK1 (iii) D-O-L Starter- 5.5KW/7.5HP, 415V, 3Ø, 50Hz (iv) Auto transformer- 166/249/322 V-O/P, 1KV I/P-415/440V (v) Ammeter- 0-10A (vi) Voltmeter- 0-500V 	21/07/2007
11			Speed Control of 3Ø Induction Motor by V.V & V.F (Variable Frequency) Control	 (i) Induction Motor 1HP, 3Ø, 415V Squirrel Cage (ii) Variac3Ø, 0-415V, 2A (iii) Special type frequency controller 0-650HZ, Micromaster-420, I/P-220-240V, O/P-0-I/P voltage (iv) Ammeter0-5A (Panel Type) (v) Voltmeter0-300V (Panel Type) 	21/07/2007
12			Load test on wound rotor induction motor to obtain the performance characteristics	(i)wound rotor Induction Motor5 H.P,415 V,1350 rpm,stator-7A,Rotor-150 V,14 A (ii)Shunt generator2KW,Va-220v DC,Ia-9.1,Vf-220V,If-0.8 (iii)Wound rotor motor starter 3Ph,5HP,415 V,7.2A (iv)1Ø Load box10A,6 step (V)Ammeter0-10A DC (vi)Voltmeter DC0-300V (vii) Voltmeter AC0-600V (viii) Regulator0-220V	21/07/2007
13			Study of various connection 3Ø, 6 coil Alternator & its operation at no load	(i) Induction Motor3Ø, 415V, 1425 rpm (ii) Alternator 2KVA, 6 Coil, 1500rpm, Rotor current-1/2A (iii) Voltmeter0-500V (iv) Ammeter0-10A (v) DC Excitor0- 220V DC (vi) D-O-L Starter 5.5KW/7.5HP, 415V, 3Ø, 50Hz	21/07/2007

14	Determine of equivalent circuit parameters of 1Ø Induction Motor	(i) Induction Motor1Ø, 220V/240V, 7.5A, 75KW, 1425 rpm (ii) Variac0-270V (iii) Voltmeter0-300V (iv) Ammeter0-10A (v) Wattmeter 5A, 300V	21/07/2007
15	To make connection diagram of full pitch & fractional slot winding of a 18 slots sq. cage induction motor for 6 pole & 8 pole operation	(i) Specially designed Induction Motor3Ø, 1HP, 415 Volts (ii) ITPC switch 16A	21/07/2007
16	To determine the direct axis (xd) & quadrature reactance (xq) of a 3Ø synchronous machine by slip test	 (i) Shunt Motor 3HP, 220V, DC (ii) Alternator 2A, 1.5KW, 2HP,415V, 50HZ,1500rpm (iii) Ammeter0- 10A, AC (iv) Voltmeter0-415V (v) Variac 2.16KVA, I/P-415V, 8A (vi) Rheostat250Ω, 2A 	21/07/2007
17	Load test of 1Ø Induction Motor to obtain performance characteristics	(i) Induction Motor1Ø, 220V/240V, 7.5A, 75KW, 1425 rpm (ii) Variac0-270V (iii) Voltmeter0-300V (iv) Ammeter0-10A (v) Wattmeter 5A, 300V	21/07/2007
18	Speed Control of 3Ø slip ring Induction Motor by Rotor Resistance Control	(i) Slip ring Motor3Ø, 400V, 1500rpm (ii) Variable rotor resistance (iii) Ammeter0-2.5/5/10A (iv) Voltmeter0- 500V	06/10/2009
19	Determination of regulation of synchronous machine	 (i) DC shunt motor 3HP, 220V, 1500rpm (ii) Alternator non-salient pole 1.5KVA, 220V AC, 50HZ, 3Ø (iii) Rotor Exciter 220V DC, 2A (iv) Resistive load box6A, 6 Steps (v) Capacitive load box (vi) Inductive load box2.38KW, 220V, 6A, 3Ø (vii) Ammeter (DC)0-10A (viii) Ammeter(DC)0-5A (ix) Voltmeter(DC)0-300V (x) Ammeter (AC)0-10A 	21/07/2007
20	Determination of magnetisation characteristics of an alternator	(i) Alternator 1.5KVA, 1500rpm, No load voltage - 415Volt (ii) DC Shunt motor 3HP, Ia=3.2A, Va=220V, If= 0.5A, Vf=220V, 1500rpm (iii) Variable DC Supply0- 270V (iv) Voltmeter(AC)0-600V (v) Ammeter(DC)0- .5A (vi) Ammeter (DC)0-10A (vii) Ammeter (AC)0-10A	21/07/2007
21	V and inverted V curve of Synchronous motor	 (i) Synchronous motor(3MVA,415 V) (ii) DC shunt generator(1.5kW,215 V) (iii) ac & dc digital Voltmeter (0-750V) (iv) ac & dc digital Ammeter (0-10A) (v)rpm meter 	07/02/2017

22			Study the performance of induction generator	 (i) Induction generator (3 phase,415 V) (ii) DC shunt motor(5HP,220 V) (iii) ac & dc digital Voltmeter (0-750V) (iv) ac & dc digital Ammeter (0-10A) (v)rpm meter 	07/02/2017
23	Power Electronics & Electric Drive	35	Study of V-I Characteristics of an SCR	 (i) Miliammeter0-200mA (ii) Voltmeter0-200V DC (iii) DC Source0-130V DC (iv) SCR0-15V DC, 	21/07/2007
24			Study of V-I Characteristics of DIAC & TRIAC	(i) Miliammeter0-200mA (ii) Voltmeter0-200V DC (iii) DC Voltage Source0-130V DC (iv) DIAC0-15V, DC, (v) TRIAC	21/07/2007
25			Study of different triggering circuit of SCR	 (i) Miliammeter0-200mA (ii) Voltmeter0-200V DC (iii) Resistive load 12V, 5W, AC (iv) AC volt source0-12V, AC (v) SCR 	06/10/2009
26			Study of the 1Ø full control bridge converter with R & R-L load	(i) Transformer 220V/16V (ii) SCR (iii) Firing Circuit	24/08/2015
27			Study of the 1Ø half control bridge converter with R & R-L load	(i) Transformer 220V/ 16V (ii) SCR (iii) Diode(iv) Firing circuit	21/07/2007
28			Study of firing circuit suitable for triggering SCR in a 1Ø full controlled bridge	(i) SCR (ii) Diode (iii) Firing Pulse generator (iv) Firing Controller 2A, 30V, AC	21/07/2007
29			Study of step down chopper	(i) Pulse generator (ii) Ramp Generator (iii) Comparator (iv) MOSFET driver (v) Voltmeter0-30V DC	04/03/2014
30			Study of performance of the PWM bridge inverter using MOSFET	(i) Transformer0-230V (II) MOSFET (iv) Diode (v) Chopper/ Inverter PWM converter230V I/P	30/01/2015
31			CRO	Aplab 3802 25MHz	24/08/2015
32			Thyristor controlled DC Drive.	DC drive setup 5KW, 230V, 2000rpm	24/08/2015
33			Chopper fed DC Drive	DC drive setup 5KW, 230V, 2000rpm	24/08/2015

34			AC Single phase motor-speed control using TRIAC	AC drive setup2.3KW, 230AC, 1478rpm	10/07/2008
35			V/f control operation of 3Φ induction motor drive	VFD setup 1HP, 415V AC, 1478rpm	06/10/2009
36			PC/PLC based AC/DC motor control operation	PLC along with AC and DC drive	03/04/2010
37	Electrical Circuit Theory and Measurement	35	Calibration of energy meter	(i) Voltmeter (ii) Ammeter (iii) Wattmeter (iii) Potential Transformer (iv) Current Transformer (v) Variac	06/03/2006
38	Laboratory	boratory	Instrument workshop.	(i)Voltmeter (ii) Portable type D.C. voltmeter (iii) Moving coil (iv) Rectifier type DC voltmeter (v) Digital multimeter (vi) Ammeter (vii) C.R.O	06/03/2006
39			Measurement of capacitance by de- sauty bridge.	Modified de - Sauty bridge kit with built in oscillator, variable resistance, null detector, connecting sockets etc.	09/09/2010
40			Measurement of Electrical Energy using Digital Energy Meter and Trivector meter	 (i) 3Ø energy meter, (ii) 3Ø standard energy meter (iii) Trivector meter, (iv) Voltmeter (v) Ammeter (vi) Digital Time counter 	09/09/2010
41			Wien Bridge	(i) Wien Bridge kit(ii) Frequency generator	06/03/2006
42			ANDERSON Bridge kit	(i)ANDERSON Bridge kit	06/10/2009
43			Measurement of power by instrument transformer.	(i) Voltmeter (ii) Ammeter (iii) Wattmeter (iv) Potential transformer (v) Current Transformer (v) Variac	06/03/2006
44			Measurement of low resistance by Kelvin double bridge	(i) Kelvin double bridge kit (ii) Digital Multimeter	06/03/2006
45			Determination of 'Y' & 'Z' parameter	(i) Determination of 'Y' & 'Z' parameter kit	06/03/2006

46			Passive low pass & high pass filter	(i) Passive low pass & high pass filter kit. (ii) True AC millivoltmeter. (iii) Function Generator	06/03/2006
47			Passive band pass & band reject filter	(i) Passive band pass & band reject filter kit. (ii) (ii) True AC millivoltmeter . (iii) Oscillator	06/03/2006
48			Frequency response active HP, LP, BP&BR filter	(i) Frequency response active HP, LP, BP&BR filter(OP-AMP based) trainer kit. (ii) True AC millivoltmeter. (iii) Function Generator	06/03/2006
49			Transient response of RL & RLC circuit	Transient response of RL & RLC circuit using hardware kit and Oscilloscope	18/07/2012
50			Transient response of RC circuit	Transient response of RC circuit using hardware kit and oscilloscope	24/08/2015
51			Frequency response of Active low pass & high pass filter	Frequency response of Active low pass & high pass filter and oscilloscope	24/08/2015
52	Basic Electrical Engineering a) Ground Floor Room no 104 b) Ground Floor Room no 105	30	Open circuit, short circuit and load test of the transformer; determination of its parameters, efficiency and regulation.	 (i) 1Ø transformer a) 1KVA, 230V/115V, 1Ø, 50HZ air cool b)1KVA,220/55V Shell type (ii) Voltmeter a) 0-300V, 50Hz,Digital Panel Mount type b) 0-750V, AC, I/P- 230V, 50HZ (iii) Ammeter a) 0-10A, 50HZ, Digital Panel Mount type b) 0-10A, AC, I/P-230V, 50HZ and 0-30A, AC, M.I.Type (iv) 1Ø Variac a) 1Ø, 0-250V, 10A, Panel Mount type b) Type- 81- CP, Max load-8A, I/P-240V, 50/60Hz(vi) Portable 1Ø Wattmeter a) 0-300V, 0-10A, Digital Panel Mount type b) 0-2.5-5A, 0-75-150-300V, P.F1 (U.P.F) 0-1-2A, 0-125-250-500V, P.f 0.2, Electrodynamic type (L.P.F)" 	08/08/2005
53		Measurement of power in a three phase balanced circuit by two wattmeter method.	(i) UPF wattmeter a) 0-500V, 0-5A, Digital Panel Mount type b)125/250/500V, 1/2A, Electro dynamic type (ii) 3Ø Variac a) 3Ø variac, 415V, 6A b)1.6-8 KVA Max, load 2A line, I/P- 415V, 3Ø, 50-60HZ, O/P- 0- 470V, 3Ø, 50-60HZ (iii) Rheostat a) 3Ø variable resistive load box, 415V/0.6A b) 1.2A, 270Ω (iv) Ammeter a)0-5A, 50HZ,Digital Panel Mount type b)0-1A, 50-60HZ	29/11/216	

			(v) Voltmeter a)0-500V, 50-60Hz, Digital Panel Mount type b)0-300V, 50-60Hz"	
54		Calibration of ammeter and Wattmeter.	 (i) Crompton type DC Potentiometer a)Standard sell- 1.0185V, 3 channel, Model-55X-DCA (ii) Variable DC voltage source a) 0-220V, 0-5A (iii) 1Ø Variac b) I/P-240V, 50/60HZ, O/P-0-270V, 2A, Max, type-2D-1P (iv) Volt- Ratio Box a) 300V:3V (v) Standard Resistance a)0.5Ω/5A (vi) Voltmeter a) 0-300V, MI Panel mount type b) 0- 30V, AC, 50/60 HZ MI type; 0-300V, AC, 50/60HZ MI type; 0-250V DC MC type; 0-250v, DC, MC type. (vii) Ammeter a)0-5A b) 0-0.5A, AC, 50/60HZ MI type; 0-500mA MC type; 0-250V DC, MC type (viii) Galvanometer a) Highly Sensitive M.C. type (ix) Resistive load a) 220V, 6A b) 2A, 250Ω " 	23/05/2015
55		Demonstration of components of LT switchgear.	 (i) Demonstration of components of LT switchgear. Kit-kat fuse 10A, 16A, 32A, 63A (ii) MCB 6A, 10A, 16A, 20A, 32A (iii) DP Isolator 16A, 32A, 40A, 63A (iv) TP Isolator 16A, 32A, 63A (v) Switch Fuse Unit 16A, 32A, 63A (vi) Busbar 32A 	23/05/2015
56		Determination of resonance frequency and quality factor of series and parallel R-L-C circuit.	Determination of resonance frequency and quality factor of series and parallel R-L-C circuit kit.	23/05/2015
57		Determination of steady state and transient response of R-L, R-C and R- L-C circuit to a step change in voltage.	Determination of steady state and transient response of R-L, R-C and R-L-C circuit to a step change in voltage.	08/08/2005
58		Determination of steady state response of R-L and R-C and R-L-C circuit and calculation of impedance and power factor.	"(i) Rheostat a) 1.2A, 125 Ω b) 1.2A, 125 Ω " "(ii) Choke a) 2A, 240V, AC b) 2A, 230V, AC" "(iii) Capacitor a) 25 μ F; ±5%, 440V, 50HZ b) 25 μ F; ±5%" "(iv) Variac a) Max load 8A, Max KVA-2.16, I/P-240V, 50HZ, O/P-0- 270, 1 phase b) Max load-2A, I/P-240V, 50/60HZ, O/P- 0-240 or 0-270V, 2A, 230V, AC" "(v) Digital voltmeter a) 0-750V, I/P-230V, 50Hz Digital Panel Mount type b) 0-750V, I/P-230V, 50Hz" "(vi) Digital Ammeter a) 0- 5A, 50HZ, I/P- 230V, AC ,Digital Panel Mount type b) 0-5A, I/P- 230V, AC"	12/09/2013

59	Determination of Torque –Speed characteristics of separately excited DC motor.	Determination of Torque –Speed characteristics of separately excited DC motor.	08/08/2005
60	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.	Voltmeters, ammeters, multimeters, oscilloscope, real life lump resistors, capacitors, inductors and autotransformers used for the other experiments are shown and their working principles are demonstrated, No separate hardware required	
61	Connection and measurement of power consumption of fluorescent lamp	"(i) Flurosent Lamp a) 240V, 40W, 50Hz, Flurosent powder coated b) 40W/54, 65000K" "(ii) Choke a) 240V, 50Hz, P.F0.5, 40W, 0.44A b) 240V, 50cycle/sec, cosØ=0.5 1xTL 40W, 0.44A 2xTL 20W, 0.42A " "(iii) Starter a) 240V, 50Hz, (20-40)W b) 20- 40W, 180-250V" "(iv) Variac a) Max load-2A, I/P- 240V, 50/60HZ, O/P-0-270V, 1Ø b) I/P-240V, 50/60Hz, O/P-0-270V, 2A max" "(v) Voltmeter a) 0-300V, MI Panel mount type b) 0-300V, 50Hz" "(vi) Ammeter a) 0- 0.5A, MI Panel mount type b) 05A, 50HZ" "(vii) Dynamometer type wattmeter a)0-1-2A, 0-125-250- 500V b) 0-1-2A, 0-125-250-500V, 50Hz"	
62	V-I characteristics of carbon filament lamp	(i) Carbon lamp a) 16CP, 240V, 50Hz b) 230V, 16 C.P.(ii) Tungsten Filament Lamp a) 60W, 240V, 50/60Hz b) 230V, 60W" "(iii) Ammeter a) 0-5A, I/P- 230V, 50HZ, Digital panel type mount type b) 0-10A, AC-230V, 50HZ" "(iv) Voltmeter a) 0-750V, I/P-230V, 50Hz, Digital panel mount type b) 0-750V AC" "(v) Variac a) Max load-2A, I/P-240V, 50/60HZ, O/P-0- 270V, 1Ø b) I/P-240V, 50/60Hz, O/P-0-270V, 2A max" "(vi) Dynamometer type wattmeter a) 0-1-2A, 0-125- 250-500V b) 0-1-2A, 0-125-250-500V, 50Hz"	
63	Verification of the Thevenin's Theorem	"(i) Voltmeter a) 0-999V, display b) 0-999V, display" "(ii) milliammeter a) 0-999mA, display b) 0-999mA, display" "(iii) DC voltage source a) 5V & 12V b) 5V & 12V" "(iv) Resistor a) Different ranges b) Different ranges"	

64			Verification of the Norton's Theorem	"(i) Voltmeter a) 0-999V, display b)0-999V, display" "(ii) milliammeter a) 0-999mA, display b) 0-999mA, display" "(iii) DC voltage source a) 5V & 12V b) 5V & 12V" "(iv) Resistor a) Different ranges b) Different ranges"	
65			Verification of the Superposition Theorem	 (i) Voltmeter a) 0-999V, display b)0-999V, display (ii) milliammeter a) 0-999mA, display b) 0-999mA, display (iii) DC voltage source a) 5V & 12V b) 5V & 12V (iv) Resistor Different ranges (v) Ammeter a) 0-10A, 0-2A, Digital Panel Mount type 	
66			Verification of the Maximum Power Transfer Theorem	 (i) Ammeter a) 0-10A, 0-2A, Digital Panel Mount type (ii) Voltmeter a) 0-99.9V, display b) 0-99.9V, display(iii) DC voltage source a) 12V, DC b) 12V, DC(iv) Resistor a) Different ranges b) Different ranges(v) Variable resistor(Pot) a) 0-100Ω b) 0-100Ω" 	
67			Determination of open circuit characteristics of a DC machine	 (i) DC shunt motor a) 2HP, 220V, 1500rpm (ii) Generator a) 1KW, 220V, 4.8A, Shunt type, 1500rpm (iii) Ammeter a) 0-10A, 0-2A, Digital Panel Mount type (iv) Voltmeter a) 0-300V, Digital Panel Mount type (v) Starter (3 point) a) 2HP, 3 Point, 220V, Panel mount (vi) DC source a) 0-220V, 0-10A, for motor control, 0-220V, 2A for generator field control (vii) RPM meter a) Digital Panel Mount with proximity sensor 	
68			Starting and Speed control of a DC shunt motor	(i) DC Shunt Motor a) 0.5HP, 220V, 4.5A, Shunt type, r.p.m-1500 b) 0.5HP, 220V, 2.9A, Exc-220V, 0.25A, r.p.m-1500(ii) 3 Point Starter a) 0.5HP, 220V, 4A b) 0.5HP, 220V, 2A(iii)Rheostat a) 500 Ω / 1A, screw motion type, 200 Ω / 3A b) 3.3A, 64 Ω and 0.6A, 1200 Ω (iv) R.P.M meter Digital Panel Mount with proximity sensor (v) Digital Ammeter a) 0-10A, 0-2A, Digital Panel Mount type b) 0-5A, I/P -220V, AC(vi) Digital Voltmeter a) 0-300V,DC volt, Digital Panel Mount type b) 0-500V, I/P-220V, AC (vii) DC source 0-220V, 10A	
69	Power System Laboratory - I.	35	Determination of breakdown strength of insulating material	(i) Transformer I/P= 230V, O/P= 0-60KV, Power consumption 60KV	

70	Determination of dielectric strength of insulating oil.	(i) Transformer(ii) High voltage transformer oil containerI/P= 230V,O/P= 0-60KV, Power consumption 60KV
71	Determination of parameter of 3- Φ transmission line model by power circle diagram	 (i) Variac0-220V (Not Working) (ii) Voltmeter0-500v (iii) Ammeter (0-50A) (iv) Wattmeter0-100W
72	Determination of the generalized constants A.B, C, D of long transmission line and regulation of a 3- Φ transmission line model	(i).Multifunction load manager. (ii) Variac:0-220V (iii)Voltmeter 0-500V (iv)Ammeter 0-50A (v)Wattmeter 0-100 W
73	Study of active and reactive power control of alternators.	 (i) Alternator 1.5KVA, 8.3A, 1500rpm, 440V, 3Ø, p.f=0.8 (ii) Motor 2HP, Va=220V, Ia=4.5A, Vf=220V, If=0.8A, 1500rpm (iii) Voltmeter (0-500V) (iv) Ammeter0-2A(3 nos), 0-1A (1 nos) (v) Variac0-200V, 0-260V
74	Study of different types of insulator.	(i) Pin Type(ii) Bushing Type(iii) Disc Type(iv) Suspension Type
75	Study of distribution systems by network analyzer.	(i) Variac(0-110V) 16V (ii) Ammeter0-10A (iii) Voltmeter0-500V (iv) WattmeterDigital
76	Panel mounted Over Current relay with Ammeter(0-50A),	(i)CT (5A secondary), (ii)Transformer (1KVA), (iii)Timer and Rheostat
77	Etap (16 user)	Etap (16 user)
78	Panel Mounted definite ON time delay and OFF time delay Relay with a timer and variable AC power supply	Panel Mounted definite ON time delay and OFF time delay Relay with a timer and variable AC power supply

79			Panel Mounted Under Voltage Relay and Earth Fault Relay with variable AC power supply and timer	Panel Mounted Under Voltage Relay and Earth Fault Relay with variable AC power supply and timer	
80			Panel Mounted CT and PT along with a Variac(0-100V),	Voltmeter(0-300) (0-150V) Ammeter(0-20A)(0-5A) Transformer (3KVA) Digital millivoltmeter & Digital milliammeter	
81			Study of different protection scheme using Micom Relay	Study of different protection scheme using Micom Relay	
82	Power System-II Laboratory	35	Parallel operation of 3Ø Transformers	 (i) 3Ø Transformer 3Ø, 2KVA, Delta/Star, 400V/230V (ii) Ammeter 0-5A(6 No.) 0-15A(3No.), (iii) Voltmeter 0-500V (2No), 0-300V (2No.) 	
83			Study of different protection schemes for feeders.	 (i) Overload Protection IDMT Relay [1], (ii) Earth Fault Protection, Neutral displacement Relay [1] (iii) Differential Protection, (iv) Single Phasing/ Two Phasing Protection Relay [1], (v) Unbalanced load, Resistive loading arrangement of Feeder [1], Digital ammeter panel mount 5A [5], Digital Voltmeter 300 V panel mount [2], Different fault simulator, Digital time counter, MCB, Toggle switch, Auxiliary Relay, Contactor, Transformer, Power supply 	
84		Study of different transformer protection schemes.	(i) Merz price Protection IDMT Relay [1], (ii) Overcurrent Protection, (iii) Unbalanced protection Negative Sequence Relay [1], Overvoltage Relay [1], Transformer 2kv, 230V/115 1 phase, Load 0-10A, resistive load, Fault creator, Digital ammeter panel mount 10A [5], Different fault simulator, Digital time counter, Aux voltage source		
85			Synchronizing multiple 3 phase alternators with power grid.	 (i) DC shunt motor [2] 7.5HP, 440V, 15A, 1500rpm, (ii) 3Ø alternator [2] 3KVA, 415V, 1500 rpm, 0.8 P.f, (iii) 3 Point Starter [2], (iv) Ammeter [8] 0-5A (3No.), 0-20A(3 No.), 0-2A (2 No.), (v) Voltmeter [6] 0-500V 	

86	To study the operations of phase shifting transformer cum induction regulator.	 (i) Induction Regulator 1KVA, 50HZ, 3Ø, I/P=400V, O/P= 0-600V, (ii) Digital Ammeter (iii) Voltmeter (iv) 3Ø variac 3Ø, 400V AC 	
87	Different types of electromechanical Relay	 (i) Non directional over current relay[1] CDD21PFG001S(M), (ii) Over current relay [1] CDG11EG100SB, (iii) Over voltage relay [1] VDG11AF0015BCH, (iv) Over voltage relay (Instantaneous) VAGM22F71C, (v) Earth fault relay [1] VAGN22AF171G, (vi) Earth fault relay (instantaneous) [1] CDG21EG114ZR, (vii) Under frequency relay [1] ATG11PF8001A, (viii) Over frequency relay [1] DG13AF9101A, (ix) Reverse power relay [1] CCUM31PF3A, (x) Negative seq relay [1] 31107122, (xi) Percentage bias differential relay [1] DDT12EG131A, (xii) Directional over current relay [1] CCD21PFG001S(M), (xiii) Pilot relay [1] SPECM2YF192A, (xiv) Time delay relay [1] VTT11ZG8041L(M) 	
88	No load characteristics of DC shunt generator	 (i) DC shunt motor [1] 2HP, 220V, 1500rpm, (ii) DC shunt generator[1] 1KW, 220V, 1500 rpm, (iii) DC Ammeter [2] 0-5A, 0-1A, (iv) DC Voltmeter [2] 0-300V, (v) 3 Point Starter[1] 220V DC, 0.5HP, (vi) Rheostat [2] 1KΩ/0.75A, 100KΩ/3A 	
89	Speed control of DC shunt motor by armature voltage control	 (i) DC shunt motor [1] 1HP, 220V, 2.5A, 1500rpm (ii) DC Ammeter [2] 0-2A, 0-1A, (iii) DC Voltmeter [1] 0-300V, (iv) Starter[1] 1HP, (v) Rheostat [2] 489Ω, (vi) RPM meter [1] 0-9999 rpm 	
90	Study of different generator protection schemes.	DC motor 5 HP-3ph Alternator (3KVA), with motor alternator excitation set, Different protection scheme (Reverse power Relay., differential, over current,	

				unbalance, over voltage, excitation failure, prime mover failure, earth fault etc) with digital voltmeters, digital ammeter, digital frequency meter, phase sequence meter, synchroscope
91			Cable Fault Locator	Cable Fault Locator
92			Mipower (5 user)	Mipower (5 user)
93	Electrical System	35		• Material for fabrication of 1-phase Transformer
94	Project Lab			• Cut section model 1-phase core type transformer
95				• Dismantled D.C. motor
96				• Dismantled 3 – Φ Squirrel cage Induction motor.
97				• Cut section model single shell type transformer
98				• Cut section model of 3-phase slip ring Induction motor
99				• Cut Section model of 1-phase Capacitor motor
100				• Dismantled 3 – Φ Slip-ring Induction motor
101				• Cut section model of DC Machine(Motor)
102				• Cut sectional model of synchronous machine
103				• Cut section model of 3 phase squirrel cage induction motor
104				• Cut section model of 3 phase 3 winding transformer
105				• Material including core & winding to made 1 phase fan complete with winding machine
106				Fabrication of iron core induction completed with core & mechanical system.
107				• Winding Machines.

108	Control System Lab.	35		MATLAB and simulink 2017 with control System Toolbox, DESKTOP PC with Intel core i5 3.2GHz, 8GB RAM, / intel core2 duo 2.93GHz, 4GB RAM	
109				DC Motor, 100W, 2A, 24V,6000 rpm, Tachogenerator, Rotary Encoder, Chopper CKT, 24V DC Source	
110				Vi micro system pvt ltd , P.M. D. C. Motor-12 Volt, Pransu electrical pvt ltd, techo generator -12volt, Process control simulator (Pcs-01)Vi micro system pvt ltd	
111			PCS-01 with, open loop, closed and PID control real-time Simulator, GW- Instaek Model GDS-1062 60mHZ DUAL Trace DSO	PCS-01 with, open loop, closed and PID control real- time Simulator, GW-Instaek Model GDS-1062 60mHZ DUAL Trace DSO	
112				DESKTOP PC with Intel core i5 3.2GHz, 8GB RAM	
113				DESKTOP PC intel core2 duo 2.93GHz, 4GB RAM	
114				Computer. 4GB RAM, 2.94GHz processor, Core 2 duo / i5	
115				10kVA UPS- Manufacturer: Penguin	
116				Computer. 2GB RAM, 1.5GHz processor, Core 2 duo	
117	Simulation Lab.	18		DESKTOP PC intel core2 duo 2.93GHz, 4GB RAM	
118				Computer. 4GB RAM, 2.94GHz processor, Core 2 duo / i5	
119				10kVA UPS- Manufacturer: Penguin	
120				Computer. 2GB RAM, 1.5GHz processor, Core 2 duo	
121				10kVA UPS	
F. DETAILS OF ICT TOOLS:

SI. No.	Name of ICT tool used	Description
1	MS office	For preparing reports related to projects by the students. For preparing official documents by faculties and staffs of the college
2	MS Teams	Theory and tutorial classes, giving assignments and quizzes, virtual laboratory sessions, Project related meetings, mentoring sessions, departmental meetings, alumni interaction, alumni meet and different co-curricular as well as extra- curricular events were conducted using the MS Teams platform.
3	Zoom	Zoom communications platform was used by faculties to conduct online classes. Different online programs were conducted by the department using this platform, before the adaption of M S teams. It allows users to connect with video, audio, phone, and chat.
4	Google Meet	Many Programs like alumni interaction, alumni meet and different co-curricular as well as extra-curricular events etc. were conducted using Google Meet video-communication service. Video meeting, meeting recording, live streaming, share screen, share presentation etc. are some attractive features which has been used. Different online workshops/webinars/FDPs/STTPs/Courses were attended/organized by faculties using this platform.
5	Web-Ex	Web-Ex video-communication service has been used by departmental faculty members for joining/participating in different online workshops/webinars/FDPs/STTPs/Courses.
6	You Tube	Different You Tube live Programs like alumni interaction, alumni meet and different co-curricular as well as extra-curricular events etc. were conducted. Departmental YouTube channel was used for this purpose. Apart from that, many online video lecture uploading was conducted from departmental and individual YouTube channels for making the online lecture contents available to the students from any remote location.
7	Facebook	Different Facebook live Programs like alumni interaction, alumni meet and different co-curricular as well as extra-curricular events were conducted. Moreover, this social networking platform was used extensively for disseminating various event brochures and short videos to make everyone acquainted with the event.
8	Videos/video links	Many videos/video links are given to students to enrich their knowledge.
9	MATLAB software	During the odd semester, MATLAB was used in simulation based projects/ laboratory sessions using online video communication platforms by the students, project supervisors (installed in their personal desktops/Laptops). All third year students (batch size 133) and most of the final year students used this software extensively from their home machines. The

		versions vary from machine to machine, but the most used one is MATLAB 2015. During the even semester (offline mode), MATLAB-20 users- version 2017a was used by the third and final year B.Tech students for simulation based studies having a batchsize of 100 and 110 respectively. Most of the final year simulation based projects were carried out using this software. Additionally, faculties used this software for their research needs.
10	MOODLE open source learning platform	Used for facilitating the students with course materials and assignments.
11	M-Tutor Learning Management system (LMS)	M-Tutor Learning Management system (LMS) has been introduced which provides online study materials to students to make their concepts more clear.
12	Gate- Tutor Learning Management system (LMS)	Gate-Tutor Learning Management system (LMS) has been designed especially for GATE aspirants for providing online study materials to them and taking mock exams to make them exam ready
13	Projectors	Used for classroom teaching by few faculties. It was extensively used in seminar and project presentations of students.
14	ETAP software	During even semester, ETAP 16 user software was used in Power System simulation based studies of B.Tech third and final year students having a batch size of 100 and 110 respectively. Additionally, the final year students who performed their power system based projects, also used this software. Faculties also used this as and when required.
15	LAN connection in Project Laboratory	Used for searching the web for conducting literature survey related to final year project work.

G. FACULTY DETAILS

S.No	Name of the Faculty Member	Highest Qualificatio n With Specializati on	Experie nce (Years)	Roles & Responsibilities	Designation	Date of Joining
1.	Prof Dr Milan.Basu	Ph.D.	35	Overall work distribution and supervision.Head of All Departmental Committees of EE, BOG,Teaching	Professor	7/01/2009
2.	Prof.Dipanwita Ganguly	M.E.\ M.Tech	16	Teaching,mentoring, Member of different committees	Assistant Professor	24/08/05
3.	Prof. Sushma .Verma	M.E.\ M.Tech	21	Teaching,mentoring, Member of various committees	Assistant Professor	1/07/2009
4.	Prof. Satabdi Chatterjee	M.E.\ M.Tech	14	Teaching, mentoring, Member of various committees	Assistant Professor	05/07/2007
5.	Prof. Debashish Biswas	M.E.\ M.Tech	13	Teaching, mentoring, Member of various committees	Assistant Professor	28/01/2008
6.	Prof. Ayindrila Roy	Ph.D.	15	Teaching, mentoring, Member of various committees	Assistant Professor	13/9/2007
7.	Prof. Debarchita. Mishra	M.E.\ M.Tech	15	Teaching,mentoring, Member of various committees	Assistant Professor	18/8/2010
8	Prof. Arabindo. Chandra	M.E.\ M.Tech	11	Teaching,mentoring, Member of various committees	Assistant Professor	01/10/2010
9	Prof.Saikat.Nath	M.E.\M.Tech	7	Teaching,mentoring, Member of various committees	Assistant Professor	15/07/2014
10	Prof. Debaparna .Sengupta	Ph.D	12	Teaching, mentoring, Member of various committees	Assistant Professor	08/08/2013

11	Prof. Dr. Syamasree Biswas Raha	Ph.D	12	Teaching,mentoring, Member of various committees	Assistant Professor	01/07/2016
12	Prof.Rajat Kumar Mondal	M.E.\ M.Tech	12.5	Teaching, mentoring, Member of various committees	Assistant Professor	22/8/16
13	Prof.Swarnali Jhampati	M.E.\ M.Tech	3	Teaching, mentoring, Member of various committees	Assistant Professor	2/2/2017
14	Prof.Birendra Krishna Ghosh	M.E.\ M.Tech	15.5	Teaching,mentoring, Member of various committees	Assistant Professor	10/7/2017
15	Prof. Monalisa Datta	M.E.\ M.Tech	4	Teaching,mentoring, Member of various committees	Assistant Professor	10/7/2017
16	Prof.Mainak Biswas	M.E.\ M.Tech	4	Teaching,mentoring, Member of various committees	Assistant Professor	19/7/2017
17	ProfMonalisa Das	M.E.\ M.Tech	7	Teaching,mentoring, Member of various committees	Assistant Professor	10/9/2018
18.	Prof Ayantini Bhattacharjee	M.E.\ M.Tech	3	Teaching,mentoring, Member of various committees	Assistant Professor	8/27/2018

H. CHOICE BASED ELECTIVE COURSE B.TECH

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students		
5th	6	6	4		
6th	9	9	5		
7th	9	9	4		
8th	8	8	4		

M.TECH

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students
1st	7	7	2
2nd	6	6	2
3rd	3	3	1

I. COURSE DELIVERY:

Year/Semester	From Core Dept			Fr	om Other De	ept	To Other Dept			
(Theory & Labs)	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	
1ST YEAR							16	1	3	
2ND YEAR	12	6THEORY +5LAB	24	6	7THEORY +2LAB	17	2	1	3	
3RD YEAR	18	10THEOR Y+7LAB	39	2	2THEORY +0LAB	6				
4TH YEAR	18	6THEORY +4LAB	30	2	2THEORY +0LAB	6				
M.Tech 1 ST YEAR	4	9 Theory+4 LAB	48	1	1 Theory	4				

M.Tech 2ND YEAR	4	2	48	0	0	0		
		Theory+D issertatio						
		al						

J. WORKLOAD DETAILS:

S. No	Name of the faculty member	Name(s) of the Theory/Lab	Со	No. of urses	No. of Periods		No. of Periods		Credits	Work Load	Completion Status
			Т	Р	Т	Р					
1.	Prof Dr Milan.Basu	Electrical Machine-I Electrical & Electronic Design Laboratory Power System Operation and Control Seminar-II (M.Tech) Electric Machine-II Power System-I Dissertation (M.Tech) Seminar Project-I Project-II	5	6	8	25	30	33	100%		
2.	Prof. Dipanwita Ganguly	Basic Electrical Engineering Power Electronics Workshop Project-I Project-II Mentoring	2	4	8	16	18	24	100%		
3.	Prof. Sushma Verma	Basic Electrical Engineering Power System-I Power Generation Economics Workshop Project-I Project-II	7	7	19	29	46	48	100%		

		Power system analysis Mentoring Power System Operation and Control HVDC Transmission Power System-II Workshop							
4.	Prof. Satabdi Chatterjee	Electric Machine-II Electric Drives Nonconventional Energy (M.Tech) Power system reliability & Planning Lab-I (M.Tech) Project-I Project-II Mentoring Advanced Power System Protection Advanced Electrical Drives Laboratory-IV (M.Tech) Electrical Machine-I Workshop	8	6	20	32	48	52	100%
5.	Prof. Debashish Biswas	Electric Circuit Theory Control System Workshop Project-I Project-II Mentoring Advanced Control System (M.Tech) Electrical & Electronic Design Laboratory Microprocessor and Microcontroller Introduction to Machine Learning	5	5	15	26	38	41	100%
6.	Prof. Ayindrila Roy	Basic Electrical Engineering Electric Circuit Theory High Voltage DC Transmission Workshop Microprocessor and Microcontroller HVDC Transmission Advanced Electrical Drives (M.Tech)	07	07	20	25	42	45	100%

		Advanced Power System Protection (M.Tech) Laboratory-IV (M.Tech) Workshop Project-I Project-II Mentoring							
7.	Prof. Debarchita. Mishra	Sensors & Transducer Digital Electronics Electrical and Hybrid Vehicle Project-I Project-II Basic Electrical Engineering Renewable and Nonconventional Energy Electromagnetic Theory Workshop Project-I Project-II Mentoring Aptitude	06	06	16	35	49	51	100%
8.	Prof. Arabindo. Chandra	Electric Machine-II Power Electronics Electric Drives Workshop Project-I Project-II Mentoring Electrical and Hybrid Vehicle Electrical & Electronic Design Laboratory Advanced Electrical Drives (M.Tech)	5	6	14	28	40	42	100%
9.	Prof. Saikat.Nath	Basic Electrical Engineering Renewable & Non-Conventional Energy Laboratory-II (M.Tech) Power System Instrumentation (M.Tech)	6	8	15	24	36	39	100%

		Workshop Project-I Project-II Mentoring Electrical & Electronic measurement Power System-II Introduction To Machine Learning							
10	Prof. Debaparna Sengupta	Electrical & Electronic measurement Communication Engineering Electrical and Hybrid Vehicle Basic Electrical Engineering Analog Electronics Workshop Project-I Project-II Mentoring Renewable & Non-Conventional Energy	06	7	15	22	34	37	100%
11	Dr. Syamasree Biswas Raha	Power System-I Non-Conventional Energy (M.Tech) Power system analysis Workshop Power System Instrumentation Laboratory-III Dissertation (M.Tech) Power System-II HVDC Transmission Project-I Project-II Mentoring	03	04	17	29	40	46	100%
12	Prof.Rajat Kumar Mondal	Basic Electrical Engineering Electric Drives Workshop Project-I Project-II Mentoring Electrical Machine-I Microprocessor and Microcontroller	07	09	17	27	40	44	100%

		Utilization of Electric Power Illumination Engg Electric System Design-II Control system							
13	Prof. Swarnali Jhampati	Basic Electrical Engineering Power Electronics Workshop Project-I Project-II Mentoring	2	4	10	16	20	26	100%
14	Prof. Birendra Krishna Ghosh	Basic Electrical Engineering Electric Drives Workshop Project-I Project-II Mentoring High Voltage DC Transmission Sensors & Transducer Utilization of Electric Power Illumination Engg Electrical System Design- II	07	07	25	25	48	50	100%
15	Prof.Monalisa Datta	Basic Electrical Engineering Control System Workshop Project-I Project-II Mentoring Digital Electronics Microprocessor and Microcontroller Utilization of Electric Power	05	08	16	27	39	43	100%
16	Prof.Mainak Biswas	Basic Electrical Engineering Industrial Automation & Control Electrical & Electronics Measurement Workshop Project-I Project-II	2	4	4	30	28	34	100%

17	Prof. Monalisa Das	Basic Electrical Engineering Electromagnetic Field Theory Workshop Project-I Project-II Aptitude Mentoring Digital Electronics Communication Engineering Utilization of Electric Power	5	6	17	24	37	41	100%
18	Prof. Ayantani Bhattacharjee	Basic Electrical Engineering Workshop Project-I Project-II Mentoring Microprocessor and Microcontroller Biomedical Instrumentation Power System Dynamics and Control	2	5	10	36	30	46	100%

K. COURSE LESSON PLAN PREPARATION AND VERIFICATION: B.TECH

	Ι	II	III	IV	V	VI	VII	VII I	Tota l
No. of course lesson plans prepared	01	0	03	03	05	05	04	02	23
No. of courses for which course lesson plans are not prepared	0	0	0	0	0	0	0	0	0
No. of courses verified by internal verifier (Senior Faculty/HOD)	01	0	03	03	05	05	04	02	23
No. of courses for which the Lesson Plans are modified after verification	0	0	0	0	0	0	0	0	0
No. of courses not verified	0	0	0	0	0	0	0	0	0

M.TECH

	Ι	II	III	IV	Total
No. of course lesson plans prepared	0	0	0	0	0
No. of courses for which course lesson plans are not prepared	8	8	4	2	22
No. of courses verified by internal verifier (Senior Faculty/HOD)	0	0	0	0	0
No. of courses for which the Lesson Plans are modified after verification	0	0	0	0	0
No. of courses not verified	0	0	0	0	0

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not? Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentees	No of mentor ing session s	Remark
1.	Prof.Satabdi Chatterjee	18701620018-36	15	24	Bright student identified , assigned project and participated in MSME project presentation
2.	Prof. Debasish Biswas	2001-17	15	23	Bright student identified , assigned project and participated in TECHGIUM project presentation
3.	Prof. Dr. Syamashree Biswas Raha	18701621001-12, 18713321001(m.tech)	12	24	4 Remedial classes conducted in semester

5.	Prof.Monalisa dutta	18701619081-98	18	24	4 Remedial classes conducted in semester
6.	Prof. Sushma Verma	18701620038-51	14	24	Student under mentoring participated in SIH and won second runner up prize
7.	Prof.Birendra krishna Ghosh	18701619062-80	18	23	Proper mentoring done and 4 remedial class conducted
8	Prof.Arabbindo Chandra	18701619034-42	18	24	4 Remedial classes conducted in semester
9	Prof.Ayindrila Roy	18701616099-117	18	23	4 Remedial classes conducted in semester
10	Prof.Dipanwita Ganguly	18701619043-61	18	23	4 Remedial classes conducted in semester
11.	Prof.Debaparna Sengupta	18701618079-93	15	23	4 Remedial classes conducted in semester
12.	Prof.Rajat kumar Mondal	18701619007-9118	19	23	4 Remedial classes conducted in semester187
13.	Prof.Debarchita Mishra	18701618017-33	17	23	4 Remedial classes conducted in semester
14	Prof. Monalisa Das	18701618094-109	15	23	4 Remedial classes conducted in semester

M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

Sl. No.	Faculty Name	Cell/Committee/Club
1.	Prof. Sushma Verma	Institution Innovation Council
2.	Prof. Satabdi chatterjee	Disciplinary Committee, internal complaint committee, cultural committee

3.	Dr. Ayindrila Roy	IQAC Co-coordinator			
4.	Prof. Debasish Biswas	Exam committee, Anti-Ragging committee			
5.	Dr. Syamasree Biswas Raha	NISP, Yukti, Business Incubation Cell			
6.	Prof. Arabindo Chandra	Science & tech club, Coding club, Film club, Trekking club, Technical committee of college conference.			
7.	Prof. Debarchita Mishra	Anti-Ragging committee			
8	Prof. Monalisa Datta	Internal Complaint Committee, NSS Committee, IPR Cell Committee.			
9.	Biplab Saha	Admission cell, Students registration,			
10.	Bibhuti Sarkar	Admission cell, Students registration, Electrical maintenance supervisor			
11.	Sushmita Das	Hridmajhare- TINT music club, Kanyashree club, Sports committee			

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/National / State/University/Inter College/ Intra College	Total no of participan ts
Expert Talk	-	-	-	-
FDP	-	-	-	-
Seminar	1	1 day	Inter College	50
Workshop	1	5 days	Inter College	90
Conference	-	-	-	-

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/National / State/University/Inter College/ Intra College	Total no of participat ion
Expert Talk	-	-	-	-
FDP	11	2 Weeks, 5 Days		-
Seminar	-	-	-	-
Workshop	-	-	-	-
Conference	-	-	-	-

P. ACHIEVEMENTS OF THE STUDENTS/FACULTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES

Sl. No.	Event Description	Organised by	Student Name	Faculty Name	International/National/State/University/Inter College/ Intra College
1.	Exuberance	TINT	Sayan Biswas		Inter College
2.			Kislay Kishor		Inter College
3.			Juyel Majumder		Inter College
5.			Subhanar Jati		Inter College
6.			Arijit Biswas		Inter College
7.			Aritya Narayan		Inter College
8.			Sourav Das		Inter College
9.			Swastika Debnath		Inter College
10.			Ayantika Chandra		Inter College
11.			Soma Das		Inter College

12.	Prerona Patri	Inter College
13.	Shreya Tafadar	Inter College
14.	Mimi Paul	Inter College
15.	Nilanjan Dua	Inter College
16.	Anway Nag	Inter College
17.	Akash Saha	Inter College
18.	Ritesh Kumar	Inter College
19.	Biradeep Basu	Inter College
20.	Joyjeet Barman	Inter College
21.	Soumyadeb Roy	Inter College
22.	Abhinandan jha	Inter College
23.	Sabuj chowdhury	Inter College
24.	Bishal Singha	Inter College

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION:

Year	Name of student enrolling into higher education	Program graduated from	Name of institution joined	Name of programme admitted to
2021-22	Purba Sutradhar	B-Tech in Electrical Engineering	NIT,Agartala	Integrated energy system
	Chiranjit Bhunia		TINT, Kolkata	Power System

R. NO. OF STUDENTS PLACED: Total 82 No. of students were placed.

S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Prof. (Dr.) Milan Basu	HoD, EE
2	Prof. Dipanwita Ganguly	Assistant Professor, EE
3	Dr. Syamasree Biswas Raha	Assistant Professor, EE
4	Prof. Satabdi Chatterjee	Assistant Professor, EE
5	Prof. Debashish Biswas	Assistant Professor, EE
6	Prof. Ayindrila Roy	Assistant Professor, EE
7	Prof. Arabindo Chandra	Assistant Professor, EE
8	Birendra Krishna Ghosh	Assistant Professor, EE

T. MINUTES OF THE DEPT. MEETING: Yes/No

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance) 1. Subject Allocation

- 2. Lesson plans
- 3. Syllabus Coverage
- 4. Mentoring

5. Any other information

Comments of the auditor:

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT.	JOURN	IAL	BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAFTER	DOOK	
Faculty only	4	-	4	-	-	8
Student-Faculty	2	-	-	-	-	2

V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	The final year project of the students spans over 2 semesters. The evaluation of a student in project is also based on rubrics. Separate performance indices have been developed for the assessment of the student performance in both the semesters. Every year, a notice is issued by the HoD mentioning the list of project domains based on the faculty expertise. Students form groups with a maximum of 4 members in each group indicating their project domain preferences. The list of all the project groups is submitted to the project coordinator within a specific time period. The HoD, project coordinator and a few senior faculty members from the department conduct a meeting to allocate the supervisors to the project groups based on the project domain preferences of the students and the supervisor. Additionally, second year students participated in a project competition. On the other hand, all third year students were a allotted a project supervisor to complete their allotted min projects.
NO OF PROJECT GROUPS	28 (4th Year) 25 (3rd Year) 7 (2nd Year)
NO OF PROJECT PROGRESS REPORTS SUBMITTED	60/group for all year students

W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- 1. Well documented student project activity supported by rubrics based evaluation.
- 2. Students are encouraged to participate in different project competitions and/ or publish in different conferences and journals with partial funding
- 3. Training facilities in domain knowledge and soft skills to improve employability of students
- 4. Activities for bridging the industry academia gap by interaction with industry experts
- 5. Mentoring system for student well beingness and all round development

Comments of the auditor:

Z. VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with 30 or more contact hours) offered	Duration of course (Hours)	Number of students enrolled in the year	Number of Students completing the course in the year	Remarks
1.	Full Stack Web development	30 hrs	100	90	Satisfactory
2.	Computer Fundamentals, installation and maintenance	30 hrs	23	19	Satisfactory

3.	Fundamentals of Electric vehicle	30hrs	50	47	Satisfactory
	Total	30*3=90			

AA. SWOC ANALYSIS:

SWOC	ANALYSIS
STRENGTH:	 The institute is located at a strategic location in the heart of a megacity and is geographically well connected ICT based conducive academic environment and supportive teaching community All round development and well-beingness of students through good mentoring system during pandemic Satisfactory PO attainment

	5. Satisfactory student faculty ratio
WEAKNESS:	 Enrollment is affected by pandemic situation More interests are yet to be shown by core companies in campusing Government grants for research are yet to be realised
OPPORTUNITIES:	 Group of enthusiastic students and faculties are present who are interested for participation in technical projects and advanced learning Good opportunities for internship in core companies for maximum number of students Active placement cell Careful and industry oriented student project guidance from second year onwards
CHALLENGES:	 Accreditation from national agencies are yet to be attained Concentrated efforts towards 100 percent enrollment of students

Comments of the auditor:

Name and Signatures of Internal Auditors	Name & Signature of the IQAC Coordinator	Name & Signature of the HoD
1.		

2.

AA. SWOC ANALYSIS:

SWOC	ANALYSIS			
STRENGTH:	 The institute is located at a strategic location in the beart of a megacity and is geographically well connected ICT based conducive academic environment and supportive teaching community All round development and well-beingness of atudents through good mentoring system during pandemic Satisfactory PO attainment Satisfactory student faculty ratio 			
WEAKNESS:	 Enrollment is affected by pandemic situation More interests are yet to be shown by core companies in campusing Government grants for research are yet to be realised 			
OPPORTUNITIES:	 Group of enthusiastic atudents and faculties are present who are interested for participation in technical projects and advanced learning Good opportunities for internship in core companies for maximum number of students Active placement cell Careful and industry oriented student project guidance from second year onwards 			
CHALLENGES:	 Accreditation from national agencies are yet to be attained Concentrated efforts towards 100 percent enrollment of students 			
is of the auditor: VO	Dr. RANJIT KUMAR Dr. Professor Dr. RANJIT KUMAR Dr. Professor Jadavpur University Jadavpur University Jadavpur University			

Comments of the auditor:

Name and Signatures of Internal Auditors 1. Str Ayinduila Roy, Ry 15/2122

SBP 15.2.22

Name & Signature of the IQAC Coordinator

2. Dr. Sy amoster Biswas Raha.

Dr. Ayan C raborty

1.5

Jadavpur University Kolkata-700032 Name & Signature of the HoD

15.2.22

A	Academic Audi ssesment Year (3 yrs.): 20	t Evaluation Repo 19-20 to 2021-22	rt	•
Clause No.	Score in 5 point scale (F	ull Marks 130)	Remarks	
	Internal Auditor	External Auditor		
. B	5	5		
C	5	5		
D	5	5		
E	5	5		
F	5	5		
G	5	5		
н	5	5		
1	5	5		
J	5	5		
К	5	5		
L	5	5		
м	5	5		
N	5	4		
0	5	4		
P	5	4		
Q	5	3		
. R	5	4		
S	5	5		
T	4	4		
U	4	3		
V	5	4		
W	2	1		
X	2	1		
Y	3	4		
Z	5	5		
AA	5	4		
TOTAL	120	110		
	Name	Designation	Affiliation	Signature
External Auditor	Prof. RANJIT KR. BARA	Frofessor, J.V.	Jadowpur	Signature
Internal Auditor	Dr. Ayinduila Roy	Asst Professor	TINT	In state 2
Internal Auditor	Dr. Syamonree Bishap	Asst. Professon	TINT	LAR S.A.2
IQAC Coordinator	Dr. Ayan Chakrabost	Associate Prof -	IT, TINT	Aghar
HoD	Porof (Dr.) Hilan Bas	Professor & HOD	TINT	PADAS
Director	DK. R.T. GOSWAN	Dimecton	TINT	RI

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Techno International New Town

Department of Electrical Engineering

Enclosure of Ac Vear (-	Enclosure of Academic Audit Assessment Report for the Year (3 yrs) 2019-20, 2020-21, 2021-22						
Clause No.	Remark						
	Satisfactory						
C	Satisfactory						
D	Satisfactory						
E	Satisfactory						
FF	Satisfactory						
G	Good						
11	Good						
1	Satisfactory						
J	As per norms						
ĸ	Document maintained properly						
LL	Satisfactory						
M	Satisfactory						
N	Ok						
0	Need improvement						
P	Good						
Q	Encouraging						
R	Good						
S	Satisfactory						
T	Maintained properly						
U	Needs improvement						
V	Good						
W	Needs serious improvement						
X	Needs serious improvement						
Y	Good						
Z	Satisfactory						
AA	Good						

	Name	Designation	Affiliation	Signature
External	Prof. Ranjit	Professor	Jadavpur	
Auditor	Kr. Barai		University	Ben
Internal	Ayindrila	Asst.	TINT	
Auditor	Roy	Professor		\$ 182 22
Internal	Dr.	Asst.	TINT	
Auditor	Syamasree	Professor		86B 22
	Biswas Raha			AU 15.2.1
IQAC	Dr. Ayan	Asso.	TINT	
Coordinator	Chakraborty	Professor		(thomas off 2022
HOD	Prof.(Dr.)	Professor &	TINT	
	Milan Basu	HOD		70, 5.2,00
Director	Dr. R.T.	Director	TINT	
	Goswami			June 15/2/2022
				V

EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT



TECHNO INTERNATIONAL NEW TOWN

Department of Information Technology

A. DEPARTMENT DETAILS

Name of Department	Information Technology									
Name of Programme	B. Tech									
Academic year	2021-22									
Student Intake	1202	120X2+60X2=360								
No. of enrolled student		Year	Re	gular	La	iteral	Str Cha	ream ange	Total	
	1st			116		0		0	116	
		2nd		67		25		10	102	
		3rd		56		0		0	56	
		4 th		55		0		0	55	
				Т	otal				329	
	Ι	II	III	IV	V	VI	VII		VIII	
No. of Theory courses offered	3	4	5	6	7	6	4		3	
No. of Practical classes offered	3	4	4	2	3	2	1		1	

B. FACULTY/STAFF STRENGTH : 15

C. STUDENT FACULTY RATIO: 15:1

D. NO. OF LABORATORIES: 3

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

Sl. No.	Lab Name	No. of accom mo dation	Equipment	1. Specificatio n	Last Upgraded
1	System Software Lab(R No-516) Subjects: 1.Computer Architecture 2. Software Engineering 3. Operating System	30	Computer(30) 2. NW switch(2) 3. Projector(1) 4. UPS(1)	2. Intel Dual core CPU 3.0GHz,4 GB RAM,500 GB HDD, 3. 24 port D link network switch 4. EPSON EB- S9 5. Greenline 10KvA UPS with 20 12v 26ah battery	May 2022
2	Network & Web Development Lab(R No-517) Subjects: 1. Computer Network 2. Project I 3.Project II	30	Computer(30) 2. NW switch(2) 3. Projector(1) 4. UPS(1)	 Intel Dual core CPU 3.0GHz,4 GB RAM,500 GB HDD, 24 port D link network switch EPSON EB- S9 Kirloskar 10KvA UPS with 20 12V 26Ah Exide battery 	May 2022
3	Design and Programming Lab(R No-505) Subjects: 1.Programming for problem solving 2.IT Workshop(Python) 3. Design and Analysis of Algorithm 4. Object Oriented Programming	30	Computer(28) NW switch(2)	Intel Dual core CPU 3.0GHz,4 GB RAM,500 GB HDD(15 machines) Intel core i5 CPU 3.2 GHz, 8 GB RAM, 1 TB HDD(13 machines) 24 port D link switch	May 2022

F. DETAILS OF ICT TOOLS:

Sl No.	Item	Specification
1	Projector	EPSON EB-S9

2	Wi-Fi	100Mbps
3	NPTEL Course	NA
4	MS Teams	NA
5	Google Meet	NA`
6	Zoom	NA
7	Schoology	NA
8	MOOCs	Coursera, EDX, M Tutor, GATE Tutor
9	YouTube Channel	TINT IT Unplugged
10	LAN	100 Mbps

G. FACULTY DETAILS

	Name of the	Highest	Experien	Roles &	Designatio	Da
S.N	Faculty	Qualificatio	ce	Responsibili	n	te
0	Member	n With	(Years	ties		of
		Specializatio)			Joi
		n				ni
						ng
1.	Mr. Shiladitya Munshi	M.Tech	16+	HoD, Academic Committee, TINT Coding Club, DAC	Assistant Professor	01/01/2021
2.	Mr. Ayan Chakraborty	M.Tech	13+	Academic Committee, Exam Cell Supervisor, NAAC Coordinator, Genesis convener, IQAC coordinator, DAC	Assistant Professor	08/09/2007
3.	Mr. Sourav Mahapatra	M.Tech	13+	Member of TINT routine committee, IIC member, Placement cell, DAC	Assistant Professor	08/09/2007
4.	Dr. Nirmalya Sundar Maiti	Ph.D.	16+	DAC, Coding Club,	Associate Professor	03/06/2022
5.	Ms. Sanjukta Bhattacharya	M.Tech	9+	Admission Cell	Assistant Professor	10/07/2012
6.	Dr. Satyabrata Maiti	Ph.D.	6+	IIC member, ARIIA and NIRF, TINT Coding Club, DAC	Associate Professor	25/02/2021

7.	Dr. Ratna Mandal	Ph.D.	4+	DAC, Coding	Assistant	01/12/2021
				club, GDSC	Professor	
8.	Ms. Anisha Mahato	M.Tech	1+	Hridmajhare	Assistant	03/01/2021
				Club, TINT	Professor	
				Photography		
				Club, Anti-		
				Ragging Squad		
9.	Mr. Anjan Dutta	M.Tech	5+	Art Club,	Assistant	25/07/2017
				Admission Cell	Professor	
10.	Dr. Ananjan Maiti	Ph.D.	5+	Lab-in-Charge	Assistant	15/03/2017
				Design and	Professor	
				programming		
				Lab		
11.	Dr. Raja Karmakar	Ph.D.	12+	Lab-in-Charge	Assistant	19/07/2010
				System	Professor	
				Software Lab		-
12.	Mr. Arun Manna	M.Tech		Lab-in-Charge	Assistant	02/09/2021
				Network and	Professor	
				Hardware Lab		
13.	Mr. Ankujyoti Das	M.Tech		Library	Assistant	13/01/2015
				representative	Professor	
14.	Mr. Suchibrota Dutta	M.Tech		Cultural	Assistant	10/02/2015
				committee	Professor	
15.	Mr. Sougata Bera	M.Tech		Cultural	Assistant	01/04/2021
	_			committee	Professor	

H. CHOICE BASED ELECTIVE COURSE

Semest er	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students
5	4	4	1
6	10	7	6
7	13	8	5
8	13	7	3

I. COURSE DELIVERY:

Vear/Se	From Core				From O	ther	To Other			
mester		Dept.			Dept.			Dept.		
(Theory & Labs)	No. of	No. of	Credi ts	No. of	No. of	Credi ts	No. of	No. of	Credi ts	
	Facul	Cours		Facul	Cours		Facul	Cours		
	ty	es		ty	es		ty	es		
Ŧ										
Ħ										
III	8	5	12	6	4	10	0	0	0	
IV	7	5	13	5	2	6	2	2	4.5	
V	7	8	21	1	1	3	4	6	16	
VI	8	9	19	1	1	3	0	0	0	
VII	9	5	15	3	2	6	4	4	10	
VIII	11	4	15	0	0	0	1	1	3	

J. WORKLOAD DETAILS:

S. N o	Name of the faculty member	Name(s) of the Theory/Lab	No Co T	o. of ourses P	No Pe T	. of riods P	Credi ts	Work Load	Completi on Status
1.	Mr. Shiladitya Munshi	Object Oriented Programming [T- PCC- CS503, L-PCC-CS593], Software Engineering [T- ESC-501], Internet Technology [T- PEC- IT701A],. PCC-CS404 -T- Design & Analysis of	3+1	1+1	9+3	8+8	3+2+3+ 3+3+2+ 2+6=24	17+11=28	Completed

		Algorithms,L-PCC-CS494 -							
		Algorithms Lab, Project [L PROJ- CS781]							
2.	Mr. Ayan Chakraborty	Data Structure & Algorithms [L-PCC-CS391], Artificial Intelligence [T- PEC-IT 501B], Software Engineering [L- ESC-591], Multimedia Technology [PEC-IT702A], 1.PCC-CS404 - Design & Analysis of Algorithms T 2.PCC-CS494 - Design & Analysis of Algorithms Lab 3.PECIT602 CHuman Computer Interaction T 4.OECIT801B Cyber Law and Ethics T	2+3	2+1	6+8	9+8	2+3+2+ 3+3+2+ 3+3=21	15+16=31	Completed
3.	Mr. Sourav Mahapatra	Data Structure & Algorithms [T-PCC-CS301, L - PCC- CS391], IT Workshop (Sci Lab/MATLAB/Python/R) [L - PCC-CS393], 1.T-PCC- CS403 - Formal Language & Automata Theory,2.PCC- CS692: Computer Networks lab L,3.PECIT 801B Cryptography & Network Security T 4.ES-CS 291 Programming for Problem Solving L 5.ES-CS- 201 Programming for Problem Solving T	1+3	2+2	3+9	12+12	3+2+2+ 3+2+3+ 2+3=20	15+21=36	Completed
4.	Ms. Sanjukta Bhattacharya	IT Workshop (Sci Lab/MATLAB/Python/R) [L - PCC-CS393], Operating Systems [T - PCC-CS502, L- PCC-CS592], 1.PCC-CS402 - Computer Architecture,T,2.PCC- CS601: Database Management Systems T,3.PCC- CS691: Database Management Systems Lab L	1+2	2+1	3+6	12+4	2+3+2+ 3+3+2= 15	15+10=25	Completed
5.	Dr. Satyabrata Maiti	Data Structure & Algorithms [T-PCC-CS301, L - PCC- CS391], Pseudocode, Machine learning [T - PEC- IT701A/D], 1.ES-CS-201 Programming for Problem Solving,2.ES-CS291 Programming for Problem Solving L 3.Pseudocode 4.PEC- IT601D: Image Processing T 5.OECIT 802A Ecommerce & ERP	3+3	1+1	8+1 0	8+8	3+2+3+ 3+2+3+ 3=19	16+18=34	Completed
6.	Dr. Ratna Mandal	1.PCC-CS492 - Computer Architecture Lab L,2.PROJCS60 T,3.ES-CS201 Programming for Problem Solving T 4.ES- CS291 Programming for Problem Solving Laboratory 5.ES-CS201 Programming for Problem Solving Laboratory	2	2	6	8	2+3+2+ 3+2+3= 15	7	Completed

7.	Ms. Anisha Mahato	Computer Organization [T- PCC-CS302, L- PCC- CS392], 1.PCC-CS402 - Computer Architecture T ,2.PCC-CS492 - Computer Architecture Lab L 3.PCC- CS602: Computer Networks 4.PCC-CS692: Computer Networks lab	1+2	1+1	6+6	12+12	3+2+3+ 2+3+2= 15	18+18=36	Completed
8.	Mr. Anjan Dutta	Data Base Management System [T - OE-EI502, L - OE-EI592], Project [L PROJ- CS781], 1.ES-CS291 Programming for Problem Solving L,2.PCC- CS492 - Computer Architecture Lab L 3.PCC- CS494 - Design & Analysis of Algorithms Lab	1+0	3+3	3+0	10+20	3+2+6+ 2+2=15	13+20=33	Completed
9.	Dr. Ananjan Maiti	Object Oriented Programming Language [T- OE-EI501, L - OE-EI591], Data structure & algorithm [T- OE-EE 501A], Computer network [T- OE-EE702C], Project [L PROJ- CS781], 1.PCC-CS494 - Design & Analysis of Algorithms Lab L,2.PCC- CS691: Database Management Systems Lab3.ES-CS 291 Programming for Problem Solving L	3+0	2+3	9+0	6+24	3+2+3+ 3+6+2+ 2+2=23	15+24=39	Completed
1 0.	Dr. Raja Karmakar	Computer Organization [L- PCC-CS392], Project [L PROJ- CS781]	0	2	0	12	2+6=8	12	Completed
1 1.	Mr. Arun Manna	1.PCC-CS492 - Computer Architecture Lab L ,2.PCC- CS494 - Design & Analysis of Algorithms Lab, Project [L PROJ- CS781],	0	8	0	18	2+2+6= 10	26	Completed
1 2.	Mr. Ankujyoti Das	Data Structure & Algorithms [L-PCC-CS391], IT Workshop (Sci Lab/MATLAB/Python/R) [L - PCC-CS393], Operating Systems [L - PCC-CS592], ES-CS291 Programming for Problem Solving, Project [L PROJ- CS781]	0+0	2+2	0+0	16+16	2+2+2+ 2+6=14	32	Completed
1 3.	Mr. Suchibrota Dutta	Data Structure & Algorithms [L-PCC-CS391], Operations Research [T - OEC-IT701A], Project [L PROJ- CS781], 1.PCC-CS494 - Design & Analysis of Algorithms Lab L, Project [L PROJ- CS781]	1+0	2+2	3+0	12+12	2+3+6+ 2+6=19	15+12=27	Completed
1 4.	Mr. Sougata Bera	Software Engineering [L- ESC-591], Cyber Security [PEC-IT702F], Project [L PROJ- CS781], 1.PCC- CS492 - Computer	0+0	2+3	0+0	8+12	2+3+6+ 2+2+6= 21	10+12=22	Completed

K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	I	II	III	IV	v	VI	VII	VI II	Tot al
No. of course lesson plans prepared	0	2	4	5	9	9	7	7	43
No. of courses for which course lesson plans are not prepared	0	0	0	0	0	0	0	0	0
No. of courses verified by internal verifier (Senior Faculty/HOD)	0	2	4	5	9	9	7	7	43
No. of courses for which the Lesson Plans are modified after verification	0	1	1	2	2	2	0	1	9
No. of courses not verified	0	0	0	0	0	0	0	0	0

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not? Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1	Dr. Ayan Chakraborty	4 th Year 1 – 30	30	40	No mention-worthy report that surfaced up. All the issues were handled successfully at the mentor level
2	Prof. Anisha Mahato	4 th Year 31 – Rest	25	36	No mention-worthy report that surfaced up. All the issues were handled successfully at the mentor level
3.	Prof. Sourav Mahapatra	3 rd Year 1 – 30	30	32	8 weak learners were identified, 3 advanced learners were identified. Necessary steps were taken.
4	Prof. Sanjukta Bhattacharya	3 rd Year 31 – Rest	27	37	10 weak learners were identified. Necessary steps were taken.
5	Dr. Satyabrata Maity	2 nd Year 1 – 30	30	40	9 weak learners were identified, 2 advanced learners were identified. Necessary steps were taken.
6	Dr. Ratna Mandal	2 nd Year 31 – 60	30	40	12 weak learners were identified, 3 advanced learners were identified. Necessary steps were taken. 1 student was identified with mental wellbeing issue, corrective measures were taken
7	Dr. Raja Karmakar	2 nd Year 61 – 90	30	38	12 weak learners were identified, 5 advanced learners were identified. Necessary steps were taken.
8.	Mr. Ankujyoti Das	2 nd Year 91 – Rest	12	35	8 weak learners were identified, 1 advanced learner was identified. Necessary steps were taken.

M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

S.No	Name of the Faculty	Roles & Responsibilities
1.	Mr. Shiladitya Munshi	HoD, Academic Committee, TINT Coding Club
	5	

2.	Mr. Ayan Chakraborty	Academic Committee, Exam Cell Supervisor, NAAC
		Coordinator, Genesis convener, IQAC coordinator
3.	Mr. Sourav Mahapatra	Member of TINT routine committee, IIC member, Placement
		cell
4.	Dr. Nirmalya Sundar Maiti	Coding Club,
5.	Ms. Sanjukta Bhattacharya	Admission Cell
6.	Dr. Satyabrata Maiti	IIC member, ARIIA and NIRF, TINT Coding Club
7.	Dr. Ratna Mandal	Coding club, GDSC
8.	Ms. Anisha Mahato	Hridmajhare Club, TINT Photography Club, Anti-Ragging
		Squad
9.	Mr. Anjan Dutta	Art Club, Admission Cell
10.	Dr. Ananjan Maiti	Lab-in-Charge Design and programming Lab
11.	Dr. Raja Karmakar	Lab-in-Charge System Software Lab
12.	Mr. Arun Manna	Lab-in-Charge Network and Hardware Lab
13.	Mr. Ankujyoti Das	Library representative
14.	Mr. Suchibrota Dutta	Cultural committee
15.	Mr. Sougata Bera	Cultural committee

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/Natio nal/State/Universit y/Inter College/ Intra College	Total no of participati on
Expert Talk	1	1 day	College Level	65
FDP	Nil	NA	NA	NA
Seminar	3	1 day, 1 day, 1day	College Level	165
Workshop	3	3day, 3 day, 5 day	College Level	125
Conference	Nil	NA	NA	NA

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/Natio nal/State/Universit y/Inter College/ Intra College	Total no of participati on
Expert Talk	1	1 day	College Level	NA
FDP	Nil	NA	NA	NA
Seminar	3	1Day, 1 Day, 1 Day	College Level	NA
Workshop	3	3Day, 3 Day, 5 Day	College Level	NA
Conference	9		International/Intern ational	NA

P. ACHIEVEMENTS OF THE STUDENTS/FACULTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES

Sl. No.	Event Description	Organized by	Student Name	Faculty Name	International/Nati onal/State/Univer sity/Inter College/ Intra College
1	International Archery championshi p in Taiwan 2021	Archery Association of India	Snehasis Kayal		International
2	Global Child Prodigy Awards 22'	Global Child Prodigy Awards	Twinkle Chatterjee		National
3	Star Student Achiever for Newsletter (2022)	Techno International New Town	Twinkle Chatterjee		Intra college
4	Valorant 2022 (Gaming)	Future Institute	Deep Das		Inter College
5	Runner-Up - Hackathon for Faculties	ACM Kolkata Chapter	Rik Biswas	Dr. Ratna Mandal	State
6	Post Doctoral fellowship	University of Quebec, Montreal, Canada		Dr. Raja Karmakar	International

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION: NIL

R. NO. OF STUDENTS PLACED: 43

S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Prof. Shiladitya Munshi	Asst. Prof. & HoD
2	Dr. Ayan Chakraborty	Asst. Prof.
3	Dr. Nirmalya Sundar Maiti	Associate Prof.
4	Dr. Satyabrata Maity	Associate Prof.
5	Dr. Ratna Mandal	Asst. Prof.
6	Prof. Sourav Mahapatra	Asst. Prof.

T. MINUTES OF THE DEPT. MEETING: Yes

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- 1. Subject Allocation
- 2. Lesson plans
- 3. Syllabus Coverage
- 4. Mentoring
- 5. Any other information

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT. CONFEREN	JOURNAL		BOOK CHAPTER	AUTHOR ED BOOK	TOTAL
	CE	SCOPU S	SCI/ESCI			
Faculty Only	6	5	2			13
Student- Faculty	1					1

V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	Supervisors provided the 1-2 broad domains and topics of the projects. The list is then shared with the students anonymously. Students are divided into groups of 3-5 and choose 2-3 topics with preference. The supervisors and groups are mapped in the best fit manner with respect to supervisor-group ratio so that one supervisor is allocated a maximum of two projects. The project allocation is done from 6^{+} semester onwards to provide more time for the students to understand the domain to achieve better results in project work. The Department of IT has decided to pursue the project in two directions like research publication, product development or both.
NO OF PROJECT GROUPS	13
NO OF PROJECT PROGRSS REPORTS SUBMITTED	2 per semester for final year for each group

W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY/ SELF FUNDED PROJECT	FUNDING AUTHORITY	COMPLETIO N STATUS
2020-21	2	self	completed

X. DETAILS OF IPR:

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved
Nil					

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- 1. Digitization of following activities of the Dept:
 - i) Elective choice
 - ii) Choice based subject distribution system
- iii) Attendance percentage calculation
- iv) Semester result analysis
- v) API based faculty feedback system
- 2. Encourage the students for participation in different technical outreach program
- 3. Implementation of students' final year project progress presentation twice in a semester.
- 4. Extensive use of ICT Tools and MOOC platform to emphasize E-Learning in pandemic phase
- 5. Introduction of departmental own live classroom channel in Youtube: TINT IT Unplugged-

https://www.youtube.com/@tint-itunplugged8820

Z. VALUE ADDED COURSES OFFERED

S.	Name of the	Durati	Number of	Number of	Remar
No	value added courses (with 30 or more contact hours) offered	on of course (Hours)	students enrolled in the year	Students completing the course in th e ye ar	ks
1	Learning to work with Excel	30	150	148	Satisfactory performance.
2.	Employability Enhancement Program	30 Hours	55	51	Achieved good impact in placement.
3.	Induction course on Basic Computer fundamentals and troubleshooting	30 Hours	50	40	Satisfactory performance on troubleshooting.

AA. SWOC ANALYSIS:

SWOC	ANALYSI
STRENGTH:	 Well acquaintance of online class delivery of the teachers Majority of the online classes were held properly
WEAKNESS:	• Students got dejected with online classes but at the same time they were not fully prepared for the offline class as well as their habit of offline classes were hampered in the middle
OPPORTUNITIES:	 Students were focused with MOOCS and other online course delivery platform
CHALLENGES:	• Transition from online to offline mode of studies

AY 2021-22

Date of Audit: 17-02-2022

Clause No.	Score in 5 point sc	ale (Full Marks 130)	Remarks
	Internal Auditor	External Auditor	
В	4	4	Associate and Professor required
С	4	4	ok
D	3	2	Lab upgradation and extension required
E	4	4	standard
F	4	4	Available, scopes for improvement
G	4	4	As per the AICT norms
Н	4	4	As per university syllabus
I	3	4	Good
J	3	4	Moderate
К	4	4	Standard Practice followed
L	4	4.5	Report is available
М	5	5	Distributed to the faculties
N	3	3.5	More attention required
0	4	4	Satisfactory
Р	4	3.5	National level competition attended
Q	1	2	Few students opted for higher study
R	4	4	Trend is good
S	4	4	Regular follow up is visible
Т	4	4	Maintained in digital form

х	2	4	Applied
Y	4	4	Followed
Z	4	4	Conducted by T&P cell for all batches
AA	4	4	
TOTAL	95	99.0	

Evaluated and verified by

	Name	Designation	Affiliation	Signature
External Auditor	Dr. Pinakpani Pal	Associate Professor	ECSU, ISI Kolkata	Rinckspat Pal
Internal Auditor	Dr. Ayan Chakraborty	Associate Prof.	Dept. of IT, TINT	Abababert
Internal Auditor	Prof. Sourav Mahapatra	Ast. Professor	Dept. of IT, TINT	Aun
IQAC Coordinator	Dr. Ayan Chakraborty	Associate Prof.	Dept. of IT, TINT	Rahaberf
HoD	Prof. Shiladitya Munshi	Ast. Professor	Dept. of IT, TINT	Subadyllusti
Director	Dr. R. T. Goswami	Professor & Director	TINT	Reviewe
			Dept. ci Dept. ci Information Technology	

EXTERNAL ACADEMIC ADMINISTRATIVE AUDIT AY-2021-2022

DEPARTMENT OF MASTER OF COMPUTER APPLICATION



TECHNO INTERNATIONAL NEW TOWN NOLVATA 700156

BLOCK - DG 1/1, ACTION AREA 1, NEW TOWN, KOLKATA-700156

A. DEPARTMENT DETAILS

Name of Department	Department of Computer Application							
Name of Programme	Maste	Master of Computer Application						
Academic year	2021-2	2021-22						
Student Intake	240 [120+60+60]							
No. of enrolled student	157 [6	157 [65+61+31]						
	Ι	II	III	IV	V	VI		
No. of Theory courses offered	5	5	6	5	5	0		
No. of Practical classes offered	3	3	3	3	2	1		

B. FACULTY/STAFF STRENGTH: 15

C. STUDENT FACULTY RATIO: 16:1

D. NO. OF LABORATORIES: 02

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

S/N	Lab Name	No. of accommodati on	Equipment	Specification	Last Upgraded
1	MCA LAB 1	38	38PC, 1Projector	i) WIPRO(21)- SSD240Gb,RAM 8Gb,Processor- INTEL® CORE™2 DUO CPU 2.93GHZ ii) ACER(17)-SSD 240GB, RAM 8GB,Processor- INTEL® CORE™i3-3240 CPU 3.40GHZ	i) HD 500GB to SSD 240GB
2	MCA LAB 2	54	54PC, 1 Projector	i) WIPRO(8)- SSD240Gb,RAM 8Gb,Processor- INTEL® CORE [™] 2 DUO CPU 2.93GHZ ii) ACER(2)-SSD 240GB, RAM 8GB,Processor- INTEL® CORE [™] i3-3240 CPU 3.40GHZ iii) Dell(20)- SSD 378 Gb,RAM 8Gb, Processor- INTEL® CORE [™] i7-10700 CPU 2.90GHZ iv) HCL(20)-HD 40Gb, RAM 4Gb,Processor- PENTIUM®D CPU 2.80 GHZ v) LENOVO(4)- HD 1TB,RAM 8Gb,Processor- INTEL® CORE [™] i3-3240 CPU 3.40GHZ	i) HD 500GB to SSD 240GB ii) Replace DELL(20) to 20 HCL pc .

F. DETAILS OF ICT TOOLS:

- 1. BlackBoard/White Board
- 2. Overhead Project
- 2. Google Meet
- 4. Microsoft Teams
- 5. Moodles

G. FACULTY DETAILS

S/N	Name of the Faculty Member	Highest Qualification Experience With (Years) Specialization (Years)		Experience (Years) Roles & Responsibilities		Date of Joining
1	Prof. BIDYUT BIMAN SARKAR	PhD	40	Coding Club	Associate Professor	21/03/2016
2	Prof. SARBANI DASGUPTA	MTech	15	 Routine Committee Libray Committee IC Cell Yukti Antiragging Cell 	Assistant Professor	09/01/2009
3	Prof. SUBHODIP MUKHERJEE	MTech	25	1. Exam Cell 2. Music Club	Assistant Professor	15/01/2007
4	Prof. SASWATI GHOSH	MTech	16	 Aesthetica (Art and Craft Club) TINT Photography Club TINT Talkies TINT NSS Unit Kanyashree Club 	Assistant Professor	01/09/2007
5	Prof. SARASIJ MAJUMDAR	MTech	14	 Anti Ragging Squad Sports Committee Grievance Redressal Cell 	Assistant Professor	15/09/2008
6	Prof. HEMANTA DEY	MTech	17	 HOD Anti Ragging Committee Infosys CCP Hostel Committee Science Club IEEE student branch counsellor 	Assistant Professor	09/01/2009
7	Prof. SOUMEN SANTRA	MTech	11	 Admission Cell Placement Cell Scholarship Cell Training Cell Coding Club 	Assistant Professor	01/10/2010
8	Prof. SOMA CHATTERJEE	MTech	15	Hridmajhare	Assistant Professor	07/06/2016
9	Prof. ANIKET NANDAN	M.Tech	2	Science Club	Assistant Professor	12/01/2021

10	Prof. POOJA BAKSHI	MTech	1	Training & Placement	Assistant Professor	12/01/2021
11	Prof. SOMA DAS	MTech	2	Training & Placement	Assistant Professor	12/01/2021
12	Prof. SAYANTANI MAZUMDAR	MTech	2	Training & Placement	Assistant Professor	01/01/2021
13	Prof. ASIM MANDAL	MTech	3	Training & Placement	Assistant Professor	10/02/2021
14	Prof. Mousumi Banerjee	MTech	14	Litwits	Assistant Professor	01/12/2021
15	Prof Ashoketaru Pal	MTech	13	Coding Club	Assistant Professor	26/10/2021

H. CHOICE BASED ELECTIVE COURSE

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students		
Ι	6	2	1		
Π	6	3	1		
III	0	0	0		
IV	0	0	0		
V	9	6	4		
VI	0	0	0		

I. COURSE DELIVERY:

Year/Semeste	te From Core Department			From Other	· Department		To Other Department			
r (Theory & Labs)	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	
Ι	6	6	16	3	3	9	0	0	0	
Ш	10	8	16	3	3	9	0	0	0	
III	8	8	25	0	0	0	0	0	0	
IV	0	0	0	0	0	0	0	0	0	
V	6	6	22	0	0	0	0	0 0		
VI	0	0	0	0	0	0	0	0	0	

J. WORKLOAD DETAILS:

S/N	S/N Name of the Name(s) of the Theory/Lab		No. o	No. of Courses		. of iods	Cradits	Work	Completi on Status
5/1	faculty member	Trainc(s) of the Theory/Lab	Т	Р	Т	Р	Creans	Load	on Status
1	Prof. SARBANI	MCAN-102- Relational Database Management System	2	0	8	0	8	8	Completed
	DASGUPTA	MCA E501A- Distributed database management							
		MCAN-E394A Image Processing Lab							
2	Prof. SUBHODIP MUKHERJEE	MCA E502B- Windows Programming WithVB	1	2	4	8	12	12	Completed
		MCA E592B- Windows Programming WithVB Lab							
3	Prof. SASWATI GHOSH	MCAN-303 Design of Analysis & Algorithm	1	0	4	0	4	4	Completed
		MCAN-103 Computer Organization and Architecture							
	Prof. SARASIJ MAJUMDAR	MCAN-191 Python Programming Lab	2	2	8	8	16	16	Completed
-		MCAN-201 Data Structure with Python	2	2	0	0			completed
		MCAN-291 Data Structure with Python Lab							
5	Prof. HEMANTA	MCAN101- Programming Concept with Python	2	0	8	0	8	8	Completed
		MCAN-E205D Computer Graphics							
		MCAN-302 Artificial Intelligence							
	Prof. SOUMEN	MCA E503B- Object Oriented Programming With Java				4			
6	SANTRA	MCAN-203 Object Oriented Programming using JAVA	3	1	12		16	16	Completed
		MCAN-293 Object Oriented Programming Lab using JAVA							
7	Bidyut Biman Sarkar	MCAN-301 Software Engineering using UML	2	0	7	0	7	7	Completed
		MCAN-E304A Image Processing							
8	Prof. SOMA	MCAN-E394A Image Processing Lab	2	2	8	8 8	16	16	Completed
	CHATTERJEE	MCAN-202 Operating System							
		MCAN-292 Operating System Lab							

S/N	Name of the faculty member	Name(s) of the Theory/Lab	No. of Courses		No. of Periods		Credits	Work Load	Completi on Status
9	Prof. ANIKET NANDAN	MCA E504B-E-commerce	1	0	4	0	4	4	Completed
10	Prof. POOJA BAKSHI	MCAN-192- DBMS Lab MCAN-292 OS Lab	0	2	0	8	8	8	Completed
11	Prof. SOMA DAS	MCAN-E394B Web Enabled Java Programming Lab MCAN-291 Data Structure Lab with Python	0	2	0	8	8	8	Completed
12	Prof. SAYANTANI MAZUMDAR	MCAN-E394B Web Enabled Java Programming Lab MCAN-204 Networking	1	1	4	4	8	8	Completed
13	Prof. ASIM MANDAL	MCAN-191 Python Programming Lab MCAN-293 OOPS lab using JAVA	0	2	0	8	8	8	Completed
14	Prof. Mousumi Banerjee	HU501- Values and Ethics of Profession	1	0	3	0	3	3	Completed
15	Ashoketaru Pal	MCAN-E304B- Web Enabled Programming	1	0	4	0	4	4	Completed

K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	Total
No. of course lesson plans prepared	3	5	5	0	NA	NA	13
No. of courses for which course lesson plans are not prepared	2	0	0	0	NA	NA	2
No. of courses verified by internal verifier (Senior Faculty/HOD)	3	5	5	0	NA	NA	13
No. of courses for which the Lesson Plans are modified after verification	0	0	0	0	NA	NA	0
No. of courses not verified	0	0	0	0	NA	NA	0

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not?

Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1	Prof. SASWATI GHOSH	18701019001 - 18701019034	31	10	Completed
2	Prof. SARBANI DASGUPTA	18771020001 - 18771020030	30	14	Completed
3	Prof. SAYANTANI MAZUMDAR	18771020031 - 18771020061	31	14	Completed
4	Prof. SOMA CHATTERJEE	18771021003 - 18771021039	33	23	Completed
5	Prof. SOMA DAS	18771021040 - 18771021073	33	23	Completed

M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

S/N	Faculty Name	Cell/ Committee/ Club				
1	Prof. SARBANI DASGUPTA	1. Routine Committee 2. Libray Committee				
2	Prof. SUBHODIP MUKHERJEE	 Exam Cell Music Club 				
3	Prof. SASWATI GHOSH	 Aesthetica (Art and Craft Club) TINT Photography Club TINT Talkies TINT NSS Unit Kanyashree Club 				

		1. Anti Ragging Squad
4	Prof. SARASIJ MAJUMDAR	2. Sports Committee
		3. Grievance Redressal Cell
		1. Anti Ragging Committee
		2.Placement Cell
		3. infosys CCP
5	Prof. HEMANTA DEY	4. Hostel Committee
		5. Science Club
		6. IEEE student branch counselor
		7. HOD
		1. Admission Cell
		2. Placement Cell
6	Prof. SOUMEN SANTRA	3. Scholarship Cell
		4. Training Cell
		5. Coding Club
7	Prof. TATHAGATA BARIK	Training & Placement
0		
8	Prof. SOMA CHATTERJEE	hridmajhare
9	Prof. POOJA BAKSHI	Training & Placement
10		
10	PIOL SOMA DAS	I raining & Placement
11	Prof. SAYANTANI MAZUMDAR	Training & Placement
12	Prof. ASIM MANDAL	Training & Placement

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/National/State/ University/Inter College/ Intra College	Total no of participation
Expert Talk	1	2 hrs	International	138
	2	2 hrs	National	247
FDP				
Seminar	2	2 hrs	Intra College	30
Workshop				
Conference				

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/National/ State/University/Inter College/ Intra College	Total no of participation
Expert Talk				
FDP				
Seminar	1	2 hr	Intra College	30
Workshop				
Conference				

P. ACHIEVEMENTS OF THE STUDENTS/FACULTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES

Sl. No.	Event Description	Organized by	Student Name	Faculty Name	International/Nati onal/State/ University/Inter College/ Intra College
1	Paper Publication on "Evaluation of Optimum Batting Order based on Partnership Analysis using Ant Colony Optimization Technique"	kazi nazrul University	Mousumi Tarafder, Sweta Sharma	Soumen Santra	International
2	Paper publication On "Enhanced Security and Privacy for IoT Based Locker System Operated at Low Frequency Spectrum Using Blockchain"	Haldia Institute of Technology	Sweta Sharma	Soumen Santra	International

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION:1

R. NO. OF STUDENTS PLACED: 48

S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Prof. HEMANTA DEY	HoD
2	Prof. SARBANI DASGUPTA	Assistant Professor
3	Prof. SUBHODIP MUKHERJEE	Assistant Professor
4	Prof. SOMA CHATTERJEE	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes/No

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- 1. Subject Allocation
- 2. Lesson plans
- 3. Syllabus Coverage
- 4. Mentoring
- 5. Any other information

Comments of the auditor:

U. DEPARTMENTAL RESEARCH INITIATIVES

TVPF	INT. CONFER	JOURNAL		BOOK	AUTHORE	τοτλι
	ENCE	SCOPUS	SCI/eSCI	CHAPTER	D BOOK	IUIAL
Faculty only	4	1	1			
Student-Faculty	2					

V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	 Project Coordinator selection (Minor & Major) Coordinator collects project list Project distribution among interested group (max 5 members)
NO OF PROJECT GROUPS	16
NO OF PROJECT PROGRESS REPORTS SUBMITTED	16

W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS

X. DETAILS OF IPR

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- 1. MCA department has designed various certificate and skill development courses to bridge the gap between the curriculum and requirements of industry and corporate sectors. This provides extra knowledge to the students.
- 2. The Department organizes various types of events at the Department, to provide a requisite platform to the students.
- 3. Incubation Center: With the motive of encouraging the establishment of start-up companies in the immediate future, we train the students in various aspects to survive on their own in future.
- 4. Communication skills and personality development programmes are provided by in-house trainers for all the Degree and Postgraduate outgoing batches.
- 5. Revision of exercises being done by the concerned teachers to facilitate the slow learners.
- 6. There has been increased application of ICT based teaching aids such as computers, internet, LCD projectors, Moodles, MS Teams etc to ensure greater response.
- 7. There is an organizing committee of the teachers and students working under able guidance of the respective Head or Coordinator along with a group of the students who participate in the event.
- 8. Various types of events such as Invited Talks, Role Play, Quiz, Essay Writing, Elocution, Aptitude Test, Innovative Concept Presentation, Research Paper Presentation etc. are organized.
- 9. The participating students are instructed well in advance about the format, conduct and assessment methodologies during the events.
- 10. The participants are appreciated, and winners are felicitated with certificates, medals, trophies, cash prizes or gift vouchers.

Z. VALUE ADDED COURSES OFFERED

S/N	Name of the value added courses (with 30 or more contact hours) offered	Duration of course (Hours)	Number of students enrolled in the year	Number of Students completing the course in a Year	Remarks
1	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	30	31	28	
2	Programming for complex problem solving using pseudocode	30	31	28	
3	Business Analytic	30	61	55	
4	Computer Fundamentals, Installations and Maintenance	30	65	62	

AA. SWOC ANALYSIS:

SWOC	ANALYSIS
	Strategic plan for growth in research and teaching which emphasizes research and teaching collaboration with existing synergistic activities on campus and new faculty hires.
	Faculty & Research
	\cdot Strong faculty qualification, talented and dedicated, knowledgeable and cooperative faculty, great collaboration, and good communication among faculty.
CTDENCTH	• A critical mass of faculty, quite reasonable size (almost enough to cover a variety of basic courses). High quality faculty having expertise in a broad range of modern computer science fields.
SIKENGIH:	\cdot Strong research potential with proven records of high-quality research, relatively good faculty members in research & active faculty publication activities.
	Working Environment
	· Strong leadership, good department chair
	· Strong department level support for faculty research activities
	· Supportive working environment among department members
	· Excellent administrative support

	· Cohesive department with stability				
	Academic Programs				
	· MAKAUT-accredited UG/PG programs.				
	\cdot Well defined program assessment (including program objectives, course learning outcomes, and instruction assessments).				
	• Excellent undergraduate curriculum including a well-developed BSc degree in Computer Science with an area of a discipline of Data Science & Cyber Security.				
	· Good faculty members in teaching and TA support.				
	Engaging Students in Research				
	· Numerous research/independent study opportunities for students				
	· Large number of students associated to department projects and events				
	\cdot Easy to involve students in projects via independent study Research and Instructional Facility				
	· Good computing environment (labs and server).				
	· Adequate lab facilities. Interactions with Community				
	· Well embedded in regional industry and corporations.				
	External Grants and Graduate Program Development				
	• Inactive in research funding. Develop more national/state level grant proposals and increase/establish funds available for Research.				
	· Not enough full-time dynamism yet in graduate students to drive grants.				
	\cdot Need to involve more graduate students in research.				
	· Increase collaborative research/projects among the faculty members.				
	· Not many strong publications.				
WEAKNESS:	· Few internal seminars and special presentations.				
	Graduate and Postgraduate Students				
	· Little student participation in co-op programs and internships.				
	\cdot Lack of technical support outside of computer science labs; tutoring and collaboration.				
	· only one full time lab operator to support all students.				
	Instructions and Curriculum				
	\cdot Compared to the number of departments and students, the number of supporting staff is				

	inadequate.
	\cdot Need more faculty for teaching graduate UG courses of Data Science & Cyber Security.
	· No courses in mobile applications.
	· No software engineering curriculum.
	· Need to bring graduate and undergraduate curriculum up-to-date.
	Outreach
	· Lack of activities between faculty, students and industry
	· Not many professorial ranked faculty represent/protect the department.
	· Need active professorial ranked faculty to support department
	• Limited program visibility and corresponding limited ability for student to grow beyond classrooms, and to increase recognition by helping faculty submitting proposals at the state, private corporations and foundations
	• Insufficient money for new research development or matching funds for proposed research at the department level. This is a critical need for faculty incentive and moral
	Research
	· Opportunities to find research grants from industry and government agencies
	· Increase engagement/external funding through new centre of excellence
	· Develop interdisciplinary research / projects using existing centre
	· Develop collaborative grants proposals and projects among Computer Application faculty Graduate and Postgraduate Programs Enhancement
	· Make the department more research oriented
	· Explore joint projects/programs with other departments/universities
	· Student-taught seminar series
TIES:	· Student internships and Co-op programs are available
	· Build up the department from recent joining faculty members
	· Expand outreach activities, e.g., high school programming contest
	· Balancing teaching quality with research
	Encroachment and Inconsistency
	· Continuing encroachment on Computer Science mission by other departments
	· Varying level of solidarity and goodwill within the college
	What if we have enough time in the day to do everything?
	· Loss of expertise thru retirement of senior faculty
	· Balancing teaching quality with research

	\cdot Faculty complacency, heavy consultant engagement with industries, less service to the department.
	\cdot Not be able to attract new faculty member in Programming languages and software engineering, and OS
	· Lack of adequate teaching and research resources including space
	Research
	· Opportunities to find research grants from industry and government agencies
	· Increase engagement/external funding through new centre of excellence
	· Develop interdisciplinary research / projects using existing centre
	· Develop collaborative grants proposals and projects among Computer Application faculty Graduate and Postgraduate Programs Enhancement
	· Make the department more research oriented
	\cdot Explore joint projects/programs with other departments/universities
	· Student-taught seminar series
	· Student internships and Co-op programs are available
	· Build up the department from recent joining faculty members
CHALLENG	· Expand outreach activities, e.g., high school programming contest
LS:	· Balancing teaching quality with research
	Encroachment and Inconsistency
	· Continuing encroachment on Computer Science mission by other departments
	· Varying level of solidarity and goodwill within the college
	What if we have enough time in the day to do everything?
	· Loss of expertise thru retirement of senior faculty
	· Balancing teaching quality with research
	\cdot Faculty complacency, heavy consultant engagement with industries, less service to the department.
	\cdot Not be able to attract new faculty member in Programming languages and software engineering, and OS
	· Lack of adequate teaching and research resources including space

Department of Master of Computer Application Techno International New Town Academic Audit Evaluation Report

Assessment Year (3 yrs.): 2019-2022

Clause No.	Score in 5 point scale	Remarks	
	Internal Auditor	External Auditor	
В	3	3.5	
С	5	5	
D	5	3.5	
E	4	3	
F	4	3.5	
G	4	4	
Н	5	4	
1	5	4.5	
J	4	4 .	
K	4	4.5	
L	4	3.5	
М	5	4	
N	3	4.5	
0	3	3	
Р	1	1	
Q	3	3	
R	3	3	
S	5	5	
Т	2	2	
U	4	4	
V	4	4	
W	0	0	
Х	1	3	
Y	4	4	
Z	4	4	
AA	4	4	
TOTAL	93	91.5	

	Name	Designation	Affiliation	Signature
External Auditor	Prof. (Dr.) Pinakpani Pal	Associate Professor	ISI	Printpan Pal
Internal Auditor	Prof. Soma Chatterjee	Assistant Professor	TINT	Some Challetype
Internal Auditor	Prof. Saswati Ghosh	Assistant Professor	TINT	Jaswati Ghod
IQAC Coordinator	Prof. (Dr.)Ayan Chakraborty	Assistant Professor	TINT	Alchant
HoD	Prof. Hemanta Dey	Assistant Professor	TINT	Hemanta Dey
Director	Prof. (Dr.) R T Goswami	Director	TINT	Ph (mynul)

Comments of the auditor:

Finde statisfactory. Rinakpar: Pld

Name and Signatures of Internal Auditors

Name & Signature of the IQAC Coordinator

1. Saswati Ghosh

Dr. Ayan Chakraborty

Name & Signature of the HoD

Saswati ghosh

ahab

Hemanta Dey

2. Soma Chatterjee

Sama Chatteryee

EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT AY - 2021-22

DEPARTMENT OF MECHANICAL ENGINEERING



TECHNO INTERNATIONAL NEW TOWN

BLOCK - DG 1/1, ACTION AREA 1, NEW TOWN, KOLKATA-700156

A. DEPARTMENT DETAILS

Name of Department:	Mechanical Engineering							
Name of Programme:	B. Tech							
Academic year	2021-22							
Student Intake	60							
No. of enrolled student	162							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	00	00	06	05	05	06	05	04
No. of Practical classes offered	02	02	01	02	03	02	02	02

B. FACULTY/STAFF STRENGTH :18

C. STUDENT FACULTY RATIO: 10

D. NO. OF LABORATORIES:08

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES: <u>https://docs.google.com/spreadsheets/d/1RJu7_0AmpHiTayTDVpcxpMaIvgS-vDIP/edit?usp=sharing&ouid=105101135350694075732&rtpof=true&sd=true</u>

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded

F. DETAILS OF ICT TOOLS:

G. FACULTY DETAILS

S.No	Name of the Faculty Member	Highest Qualification With Specialization	Experience (Years)	Roles & Responsibilities	Designation	Date of Joining
1.	Dr. Tapas Kumar Nandi	PhD, ROTODYNAMIC MACHINES.	14	 Academic Committee Departmental Academic Committee Disciplinary Committee NAAC cls Coordinator IQAC coordinator Finance Committee Infrastructure and maintenance Purchase committee 	Associate Professor	02-07- 2013
2.	Dr. Abhijit Patra	PhD	16	 Academic Committee Departmental Academic Committee Grievance Redressal Cell Entrepreneurship Cell 	Associate Professor	21-03- 2016
3.	Sumit Kumar Mukhopadhyay	M.Tech,Mechanical	9	1. Anti-Ragging Committee 3. Routine Committee 5.NSS Committee	Assistant Professor	08-09- 2010
4.	Dibyendu Nath	M.Tech, Mechanical	10	 Academic Committee Departmental Academic Committee Library Committee 	Assistant Professor	02-09- 2014
5.	Dr. Santanu Duari	PhD, Machine Design	6	 Departmental Academic Committee Disciplinary Committee Departmental NAAC Committee 	Assistant Professor	03-02- 2015
6.	Aniket Maiti	M.Tech(MECHANICAL , OPERATION(PRODUCTION), PGPM	12	 T&P Cell Departmental Academic Committee 	Assistant Professor	18-08- 2005
7.	Prabir Biswas	ME, heat power	7	 Routine Committee "Hridmajhare"The club of performing Arts 	Assistant Professor	20-04- 2017
8.	Arindam Roy Goswami	ME, MACHINE DESIGN	4	 Business Incubation Cell, TINT TINT Science club 'Genesis' 	Assistant Professor	20-07- 2015
9.	Sumit Dey	M.Tech, PRODUCTION ENGINEERING	4	 Training and Placement Cell Cultural committee (Fresher and Fest) Anti-ragging committee Sports committee 	Assistant Professor	05-08- 2015
10.	Anustup Chatterjee	M.Tech, FLUID MECHANICS	5	1. Exam Cell 2.Admission Cell	Assistant Professor	25-07- 2016
11.	Mr. Abhijit Bhowmik	M. Tech, Mechanical	1	 Departmental Event organizer Departmental Project 	Assistant Professor	06.01.2016

				Coordinator		
12.	Ivy Choudhury	M.Tech, Water Resources and Hydrulic Engg.	2	1. NPTEL 2, M-Tutor 3.Ant-Ragging	Assistant Professor	10-07- 2017
13.	Hrishita Barman	M.Tech, Mechanics	3	1. Routine committee 2. Anti ragging committee 3. Litwits club	Assistant Professor	10-07- 2017
14.	Basumitra Ghosh	M.Tech, Thermal	1	 SPICE Departmental Event organizer Face book live (Technical Support 	Assistant Professor	06-09- 2018
15	Mr. Gourab Chakraborty	M.Tech, Mechanical	7	Departmental Event organizer	Assistant Professor	02-07- 2017
16	Ms. Ankita Mistri	M.Tech, Mechanical	5	Departmental Event organizer, social media technical support	Assistant Professor	5-01-2021
17	Mr. Arijit Das	M.Tech, Mechanical	7	Departmental Event organizer	Assistant Professor	14-01- 2021
18	Dr. Ashok Kumar Bandyopadhyay	M.Tech, Mechanical	17	Departmental Project Coordinator	Assistant Professor	03-02- 2020

H. CHOICE BASED ELECTIVE COURSE

Semester	No. of elective course offered by the University	No. of elective course offeredby the Department	No. of elective course chosenby the students
6 th	10	10	4
7 th	18	18	6
8 th	22	22	7

I. COURSE DELIVERY:

Voor/Som		From Co	re Dept		From Oth	er Dept		To Other Dept			
ester (Theory & Labs)	No. of Facu lty	No. of Cour ses	Cred its	No. of Facu lty	No. of Cour ses	Cred its	No. of Facu lty	No. of Cour ses	Cred its		
Ι	-	-	-	-	-	-	12	2	6		

II	-	-	-	-	-	-	10	2	6
III	5	4	13.5	3	3	10	2	1	3
IV	7	7	22	1	1	0	1	1	3
V	8	5	15	2	2	3	0	0	0
VI	6	7	20.5	1	1	0	0	0	0
VII	5	7	19.5	1	1	2	0	0	0
VIII	9	9	18.5	0	0	0	0	0	0

J. WORKLOAD DETAILS:

		Sam(O		No Sub	. of jects	No Per	o. of riods	Total	
SL. No.	Name of the faculty member	dd/Eve n)	Name(s) of the Theory/Lab	Т	Р	Т	Р	Load per sem	Total
		ODD	Engineering Mechanics(ES-ME301),Solid Mechanics(PC-ME502), Automobile Engineering(PC-ME701A),Mechanical Engineering Laboratory I (Thermal)(PC- ME591),	3	1	5	6	11	
1	Dr. Tapas Kumar Nandi	EVEN	Fluid Mech. & Fluid M/C(PC- ME402),Strength of Materials(PC- ME403),Internal Combustion Engine and Gas Turbine(PE-ME601A),Industrial Pollution and Control(OE- ME802D),Mechanical Engineering laboratory (Deign) II(PC-ME- 691),Project:Part-II(PW-ME- 681),Project:Part-IV(PW-ME 881)	4	3	7	9	16	27
			Manufacturing Processes(PC- ME302),Advanced Welding Technology(PC-ME701H),Project-III(PW- ME781)		1	4	6	10	
2	Dr. Abhijit Patra	EVEN	Materials Engineering(ES- ME401),Metrology & Instrumentation(PC- ME404),Entrepreneurship Management(OE- ME802B),Thermal power Engieering Lab (EE)(ES ME-491),Mechanical Engineering laboratory (Deign) II(PC-ME- 691),Project:Part-IV(PW-ME 881)	3	3	9	8	17	27
		ODD	Workshop (ES-ME-192)	0	1	0	19	19	
3	Mr. Sumitkumar Kumar Mukhopadhyay Kumar Mukhopadhyay Kumar Kumar Kumar Mukhopadhyay Kumar		Entrepreneurship Management(OE- ME802B),Engineering Graphics and Design (ES ME-291),Workshop/Manufacturing Practices (ES-ME292)	1	2	3	12	15	34
4	Mr. Dibyendu Nath	ODD	Kinematics and Theory of Machines(PC- ME503),Graphics (ES-ME-191),Mechanical Engineering Laboratory I (Thermal)(PC- ME591),	1	2	4	17	21	32

		EVEN	Engineering Graphics and Design (ES ME- 291),Project:Part-IV(PW-ME 881)	0	2	0	11	11	
		ODD	Engineering Mechanics(ES- ME301),Automobile Engineering(PC- ME701A),Industrial Engineering(OM- ME701B),Graphics (ES-ME-191),Workshop (ES-ME-192),Project-III(PW-ME781)	3	3	7	13	20	
5 Mr. Aniket Maity	EVEN	Metrology & Instrumentation(PC- ME404),Humanities II (OR)(HMHU601),Internal Combustion Engine and Gas Turbine(PE-ME601A),Total quality Management(OE- ME801A),Engineering Graphics and Design (ES ME-291),Machine Drawing - I (PC - ME492)	4	2	9	14	23	43	
6	Dr. Santanu Duari	ODD	Advanced ManufacturingTechnology(PC- ME701),CAD/CAM(PC-ME702J),Graphics (ES-ME-191),Workshop (ES-ME- 192),Machine Drawing- II(PC- ME592),Mechanical Engineering Laboratory III(Manufacturing)(PC-ME791)	2	4	4	16	20	43
		EVEN	Design of Machine elements(PC- ME602),3D Printing & Design(PE-ME- 802F),Engineering Graphics and Design (ES ME-291),Machine Drawing - I (PC - ME492)	3	2	7	16	23	
		ODD	Engineering Mechanics (Electrical)(ES- ME301),Graphics (ES-ME-191),Workshop (ES-ME-192),Machine Drawing- II(PC- ME592),Project-I(PW-ME581),Project- III(PW-ME781)	1	5	2	18	20	
7	Mr. Arindam Roy Goswami	EVEN	Thermal power Engieering(ES EE401),Mechatronics(PE- ME602G),Robotics(PE-ME602H),Power Plant Engineering(PE-ME-801B),Industrial Pollution and Control(OE- ME802D),Engineering Graphics and Design (ES ME-291),Thermal power Engieering Lab (EE)(ES ME-491),Mechanical Engineering laboratory (Deign) II(PC-ME- 691),Project:Part-II(PW-ME-681),	4	3	10	16	26	46
8	Mr. Sumit Dey	ODD	Manufacturing Processes(PC- ME302),Advanced ManufacturingTechnology(PC- ME701),CAD/CAM(PC- ME702J),Workshop (ES-ME-192),Practice 0f Manufacturing Processes(PC ME- 391),Mechanical Engineering Laboratory III(Manufacturing)(PC-ME791),	3	3	7	16	23	45
		EVEN	Manufacturing Technology(PC- ME601),Micro & Nano Manufacturing(PE- ME 802G),Workshop/Manufacturing Practices (ES-ME292),Practice of Manufacturing Processes and System Lab(PC ME-491)	2	2	7	15	22	
9	Mr. Prabir Biswas	ODD	Thermodynamics(PC-ME301),Non Convetional Energy sources(OM- ME701D),Graphics (ES-ME- 191),Workshop (ES-ME-192),	2	2	5	15	20	42

		EVEN	Applied Thermodynamics(PC- ME401),Power Plant Engineering(PE-ME- 801B),,Engineering Graphics and Design (ES ME-291),	2	2	6	16	22	
		ODD	Heat Transfer(PC-ME501),Advanced Welding Technology(PC- ME701H),Workshop (ES-ME- 192),Mechanical Engineering Laboratory I (Thermal)(PC-ME591),	2	2	3	18	21	
10	Ms. Ivy Chowdhury	EVEN	Fluid Mech. & Fluid M/C(PC-ME402),3D Printing & Design(PE-ME- 802F),Engineering Graphics and Design (ES ME-291),Workshop/Manufacturing Practices (ES-ME292),Practice of Manufacturing Processes and System Lab(PC ME-491),	2	3	4	19	23	44
		ODD	Engineering Mechanics (Electrical)(ES- ME301),Solid Mechanics(PC- ME502),Graphics (ES-ME-191),Workshop (ES-ME-192),	2	2	4	15	19	
11	Ms. Hrishita Barman	EVEN	Strength of Materials(PC- ME403),Engineering Graphics and Design (ES ME-291),Workshop/Manufacturing Practices (ES-ME292),Mechanical Engineering laboratory (Deign) II(PC-ME- 691)	1	3	2	22	24	43
12	Mr. Basumitra Ghosh	ODD	Thermodynamics(PC-ME301),Heat Transfer(PC-ME501),Selection and testing of materials (PC-ME702E),Graphics (ES- ME-191),Workshop (ES-ME-192),	3	2	7	15	22	37
	Girosh	EVEN	,Total quality Management(OE- ME801A),Engineering Graphics and Design (ES ME-292),	1	2	3	12	15	
		ODD	Graphics (ES-ME-191), Workshop (ES-ME- 192),	0	2	0	16	16	
13	A. Chatterjee	EVEN	Engineering Graphics and Design (ES ME- 291),Workshop/Manufacturing Practices (ES-ME292)	0	2	0	16	16	32
		ODD	Graphics (ES-ME-191),Workshop (ES-ME- 192),Project-I(PW-ME581),	0	3	0	10	10	
14	Mr. Abhijit Bhowmik	EVEN	Power Plant Engineering(PE-ME- 801B),,Engineering Graphics and Design (ES ME-291),Workshop/Manufacturing Practices (ES-ME291)	1	2	3	12	15	25
		ODD	Graphics (ES-ME-191),Workshop (ES-ME- 192),Project-III(PW-ME781)	0	3	0	11	11	
15	Mr. Gourab Chakraborty	EVEN	3D Printing & Design(PE-ME- 802F),Engineering Graphics and Design (ES ME-291),Workshop/Manufacturing Practices (ES-ME292),Project:Part-IV(PW- ME 881)	1	3	3	15	18	29
16	Ms. Ankita Mistri	ODD	Graphics (ES-ME-191), Workshop (ES-ME- 192), Project-III (PW-ME781)	0	3	0	11	11	26

		EVEN	Micro & Nano Manufacturing(PE-ME 802G),Engineering Graphics and Design (ES ME-291),Workshop/Manufacturing Practices (ES-ME292)	1	2	3	12	15	
		ODD	Graphics (ES-ME-191),Workshop (ES-ME- 192),Project-III(PW-ME781)	0	3	0	11	11	
17 Mr. Ariji	Mr. Arijit Das	EVEN	Industrial Pollution and Control(OE- ME802D),Engineering Graphics and Design (ES-ME292),		2	3	12	15	26
18	18 Dr. Ashok Kumar Bandyopadhyay	ODD	CAD/CAM(PC-ME702J),Graphics (ES-ME- 191),Workshop (ES-ME-192),Mechanical Engineering Laboratory III(Manufacturing)(PC-ME791),	0	3	0	13	13	21
		EVEN	Engineering Graphics and Design (ES ME- 291),Workshop/Manufacturing Practices (ES-ME292)	0	2	0	8	8	

K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	02	02	03	05	05	04	06	05	32
No. of courses for which course lesson plans are not prepared	00	00	01	02	00	03	02	01	9
No. of courses verified by internal verifier (Senior Faculty/HOD)	02	02	03	05	05	04	06	05	32
No. of courses for which the Lesson Plans are modified after verification	02	02	03	05	05	04	06	05	32
No. of courses not verified	0	0	0	0	0	0	0	0	00

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not? Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentees	No of Mentoring sessions	Remark
1.	Prof. Aniket Maiti	18700718044 - 69	24	15	most of the mentee are moderate learner.
2.	Dr. Santanu Duari	18700719001 - 21, 70	22	12	Biki Dev and Angshuman Das were found slow learners in some subjects. Rest of the mentees were moderate learner.
3.	Prof. Arindam Roy Goswami	18700721019 - 30	12	10	Found one student who needs counseling.
4.	Prof. Sumit Dey	18700718020 - 43	24	11	All the students attended Theory and Practical classes regularly.
5.	Prof. Prabir Biswas	18700720001 - 20	20	14	All tkc st"dc→ıts attc→ıdcd o→ıli→ıc ľkcoíQ a→ıd Píactical classcs ícg"laílQ. Most or tkcm wcíc modcíatc lcaí→ıcí.
6.	Prof. Ivy Das Chowdhury	18700719022 - 44 18700720022 - 28	28	28	All were found mentally healthy. No issues were found.
7.	Prof. Hrishita Barman	18700719045 - 69 18700720029 - 35	32	15	All the students attended online Theory and Practical classes regularly. Most of them were moderate learner. Chayan Pramanik was found as slow learner.

M. DETAILES OF NON-ACADEMIC RESPOSIBILITY

Sl. No.	Faculty Name	Cell/Committee/Club
1	Prof. (Dr.) Tapas Kumar Nandi	ACADEMIC COMMITTEE Disciplinary Committee Members LIBRARY COMMITTEE IQAC cell
2	Prof. (Dr.) Abhijit Patra	ACADEMIC COMMITTEE
3	Dr. Santanu Duar	TCS ion Coordinator. Departmental Exam cell National Innovation and Start-up Policy (NISP)
4	Mr. Aniket Maity	Examination Committee Placement Cell
5	Mr. Prabir Biswas	Coordinator of College Cultural Program (HRIDMAJHARE) Routine Committee TINT Talkies
6	Mrs. Ivy Das Chowdhury	TINT Art Club - AESTHETICA Sports committee INTERNAL COMPLAINTS COMMITTEE
7	Mr. Sumit Dey	Placement Cells Cultural Committee Anti-ragging Squad
8	Mr. Arindam Roy Goswami	Business Incubation Cell, TINT Institution Innovation Cell (IIC) Social media technical support
9	Mrs. Hrishita Barman	Routine Committee LITWIT Club Anti-ragging Committee
10	Mr. Basumitra Ghosh	SPICE Departmental Event organizer Face book live (Technical Support)
11	Mr. Gourab Chakraborty	Departmental Event organizer
12	Ms. Ankita Mistri	Departmental Event organizer, social media technical support
13	Mr. Arijit Das	Departmental Event organizer
14	Dr. Ashok Kumar Bandyopadhyay	Departmental Project Coordinator
15	Mr. Abhijit Bhowmik	Departmental Event organizer, Departmental Project Coordinator

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED: Nil

	Total number	Duration	International/National/ State/University/Inter College/ Intra College	Total no of participatio n
Expert Talk	-	-	-	-
FDP	-	-	-	-
Seminar	3	21-05-2021 to 21- 05-2021 18-06-2021 to 18- 06-2021 08-07-2021 to 09-07-2021	Inter College	25 22 22
Workshop	_	-	-	-
Conference	-	-	-	-

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/National/ State/University/Inter College/ Intra College	Total no of participants
Expert Talk	-	-	-	-
FDP	02	16-01-2022 - 24- 04-2022 24-03-2022 - 24- 03-2022	National	01 01
Seminar	01	15-07-2021 - 15- 07-2021	National	01
Workshop	-	-	-	-
Conference	03	11-03-2022 - 11- 03-2022 04-04-2022 - 06- 04-2022	International	01 01 01

P. ACHIEVEMENTS OF THE STUDENTS/FACUTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES : Nil

SI. No	Event Descriptio n	Organise d by	Studen t Name	Facult y Name	International/National/St a te/University/Inter College/ Intra College
-	-	-	-	-	-

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION:06 R. NO. OF STUDENTS PLACED:32 (45%)

S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1.	Dr. Tapas Kumar Nandi	Associate Professor
2.	Sumit Kumar Mukhopadhyay	Assistant Professor
3.	Dibyendu Nath	Assistant Professor
4.	Aniket Maiti	Assistant Professor
5.	Diganta Munshi	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance) 1. Subject Allocation

- Lesson plans
 Syllabus Coverage
- Mentoring
 Any other information

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT.	JOURNAL		BOOK	HORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	02	03	-	01	-	06
Student- Faculty	02	04	-	-	-	06

V. STUDENT PROJECT MENTORING SYSTEM

PROJRCT ALLOCATION	Students are asked there subject or topic of interest. Group work capabilities
PROCESS	also been observed. Then by checking availability of resources along with
	the project scope and objectives group allocation done by departmental
	academic committee.
NO OF PROJECT	21
GROUPS	
NO OF PROJECT	15
PROGRSS REPORTS	
SUBMITTED	

W. DEPARTMENTAL PROJECT INITIATIVES : Nil

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS

X. DETAILS OF IPR: Nil

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

1. Effective Mentoring System

Total students are divided among all faculties for effective mentoring. Faculties meet their mentees at least once in a month and note down to sort out their problem. Faculties are used to speak to their respective guardians whenever it is necessary for all academic & nonacademic issues.

2. Allotment of Project

Students are initially given different domain for doing the project. it is asked by the project coordinator to choose the domain and make project group of any domain consisting of maximum 5 students. Then it is discussed in the DAC meeting and faculties are allotted the project group as per their expertise.

3. Use of ICT tools as teaching method

Faculties use the Projector in classroom for video base lecture whenever it is required. NPTEL lectures of different subjects are also shared among the students. The advance laboratories which are not in syllabus, are also shared among students for additional knowledge.

4. Motivating students for Research publication along with Faculties

Students are encouraged for publishing the paper in International / National conference and peer reviewed journal. It is also decided in DAC meeting that all project work must be published in International/National Conference.

Z. VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with	Duration of course	Number of students	Number of Students	Remarks
	30 or more contact	(Hours)	enrolled in the	pleting the	
	hours) offered		year	course in	
				the year	
1.	Employability Enhancement Program (4TH YR)	30	70	65	Employability Enhancement Program (4TH YR)
2.	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning(3rd)	30	59	55	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning(3rd)
3.	Programming for complex problem solving using pseudocode (3RD YEAR)	30	59	55	Programming for complex problem solving using pseudocode (3RD YEAR)
4.	Statistical Analysis using Python (3rd)	30	59	54	Statistical Analysis using Python (3rd)
5.	Fundamentals of Electric Vehicles (2nd)	30	31	29	Fundamentals of Electric Vehicles (2nd)

SWOC	ANALYSIS
STRENGTH:	1. Qualified, Industry experienced and dedicated teaching faculty.
	2. Laboratories with State-of-the-Art equipment and CAD lab.
	3. Faculty contributing to implementation of curriculum timely as per Affiliating University.
	4. Effective use of ICT in teaching learning process.
	5. Student centric functioning with mentoring, counselling through faculties and
	effective academic monitoring.
WEAKNESS:	1. Less Industry – Institute interaction due to lack of Industry
	2. Moderate Placement in core company.
	3. Departments lacks in revenue generation.
	4. Less number of students shows interest in pursuing higher education.
OPPORTUNIT	ES: 1. To arrange a greater number of Workshop / Expert talk / Seminar in
	departmental level.
	2. To arrange Industry based training programs for the students.
	3. Scope for interdisciplinary and sponsored projects.
	4. Scope for arrangement of FDP on recent trends as per industry needs.
CHALLENGES:	1. Focus on strengthening Industry-Institute Interaction.
	2. Focus in greater number of campus placements in core companies.
	3. Encouraging students for competitive examinations and higher studies.
	4. More focus on Industrial training for students.

Techno International New Town

Academic Audit Evaluation Report

Mechanical Engineering Department

Assesment Year (3 yrs.): AY 2019-20, 2020-21 & 2021-22

Clause No.	Score in 5 point so	cale (Full Marks 130)	Remarks	
	Internal Auditor	External Auditor		
В	4	4		
С	3	ý		
D	4	5		
E	4	4		
F	3	4		
G	4	5		
Н	4	4		
I	4	4		
J	4	5		
К	3	4		
L	5	5		
М	4	4		
N	4	5		
0	3	4		
Р	0	Ó		
Q	3	4		
R	3	3		
S	4	4		
Т	4	5		
U	2	3		
V	4	5		
W	0	0		
Х	0	U		
Y	4	4		- 00 0
Z	4	5		BTRUCTU PROFE
AA	4	4		HADAVPUR
TOTAL	85	98		H D (IIT K) (M) 9830
	T Nama	Decignotion	Affiliation	Cianal Pro

	Name	Designation	Affiliation	Signature
External Auditor	B. Dipanker Chickow	only Professor	Jaclouper Unit	wasty a
Internal Auditor	DR. ABHIJIT PATRA	ASSOCIATE PROF	TINT	Ani
Internal Auditor	DR. SANTANU DUARI	ASSISTANT PROF	TINT	Duran's
IQAC Coordinator	Prof or Ay an challrabert	FASSISTANT RROF	TINT	Walsh
HoD	DR. T.K: NANDI	ASSOCIATE PROF	TINT	the li
Director	DR. R.T. GOSWAMI	PROFESSOR	TINT	Repumer
Comments of the auditor:

ments of the auditor: The different components exhibited and presented relatest a cademic and it we found to be in order. Mpanb Chatmany PROF. D.R. DIPA PROFERENCE CHEATER VCR.77 PROF. D.R. DIPA PROFERENCE CHEATER VCR.77 PROFERE

Name and Signature of Internal Auditors

1. DR. ABHIJIT PATRA Manijitfator 18/2/2022

2. DR. SANTANU DUARI Santans Phon " 4.9.22

Name & Signature of the IQAC Coordinator

Dr. Ayan Chakrabordy

Name & signature of The HOD

18/2/2m

Prof. (Dr.) Tapas Kumar Nandi H.O.D. Machanical Engineering Techno International New Town Formerly (Techno India College of Technology) Block-DG, AA-1, New Town, Rajarhat, Kol. - 156

ACADEMIC ADMINISTRATIVE AUDIT

AY - 2021 - 2022

DEPARTMENT OF APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING



TECHNO INTERNATIONAL NEW TOWN

BLOCK - DG 1/1, ACTION AREA 1, NEW TOWN, KOLKATA - 700156

A. DEPARTMENT DETAILS

Name of Department:	Applied Electronics & Instrumentation Engineering (AEIE)			1				
Name of Program:	B. T	B. Tech						
Academic year	2021-22							
Student Intake	60 X 3yrs = 180							
No. of enrolled student	99							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	6	6	6	6	7	8	7	5
No. of Practical classes offered	4	6	4	4	5	4	7	5

B. FACULTY/STAFF STRENGTH: 9

C. STUDENT FACULTY RATIO: - 11:1

D. NO. OF LABORATORIES: 5

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

SI. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
			Trainer Kit for Study of Static Characteristics		27/09/2010
			Trainer Kit for Study of Dynamic Characteristics		27/09/2011
			Digital Multimeter (Metravi)		27/09/2012
			Cathode Ray Oscilloscope	20MHz, METRAVI OS- 5020	27/09/2013
1	Electronic	28	Trainer Kit for V to I and I to V Converter		27/09/2014
	Measurement &		Patch Cord with a pair of Jack		27/09/2015
	Instrumentation Lab		Color display Storage Oscilloscope	TEKTRONIX 60 MHZ, 2Ch, 1GS/S,	27/09/2016
			LABVIEW SOFTWARE 10 USERS, DATA CARD USB-6009, USB9219, DLINK WIRELESS N150, USB ADAPTER		27/09/2017

			FUNCTION GENERATOR WITH 9 DIGIT DISPLAY	GW INSTEK MODEL SFG- 2004 4MHz DDS	27/09/2018
			DC REGULATED POWER SUPPLY	0-16V/0-2A, MAKE-APLAB LD1602	27/09/2019
			DC REGULATED POWER SUPPLY,	0-22V/1A DUAL	27/09/2020
			Dead weight pressure gauge tester	0.4 to 40 kg	20.12.2008
			Muffle Furnace	1KW	20.12.2008
			RTD	PT 100	20.12.2008
			PID controller		20.12.2008
			Orifice plate	1 Inch	20.12.2008
			DP transmitter		20.12.2008
2		20	Pump	0.5 HP	20.12.2008
	T 1 / 1		Storage Tank	100 Lit, 200Lit	20.12.2008
	Industrial		Rotameter		20.12.2008
	Instrumentation Lab		Capacitive level sensor		20.12.2008
			Moisture balance		20.12.2008
			Capillary Viscometer		26.10.2013
			Saybolt viscometer		20.12.2008
			Strain gauge transducer trainer kit	SIL-216	04.03.2008
			load cell trainer kit	SIL-215	04.03.2008
			Temperature measurement using AD590 IC sensor trainer kit	SIL-201	04.03.2008
			Temperature measurement Kit		22.02.2014
			capacitive transducer trainer kit	SIL-219	04.03.2008
			proximity sensor Kit		22.02.2014
3		20	LVDT Trainer Kit	SIL-212	04.03.2008
			LDR trainer Kit	SIL-207	04.03.2008
	Sensors and		Digital Multimeter	CIE-122	04.03.2008
	Transducers Lab		Digital Multimeter	DMM10	20.06.2011
			Oscilloscope	ST_201C	20.06.2011
			Magnetic proximity sensor Trainer Kit	SIL-218	04.03.2008
			Stroboscope trainer Kit	STB-01	07.03.2008
4	Control Engineering Lab	20	Computer	Pentium Core 2 Duo	22.09.2016

			PID controller with ramp sock facility	DC1040PT	07.11.2009
			Temperature Transmitter	STT25M	07.11.2009
			Transmitter power supply	24V DC, 2Amp	07.11.2009
			Muffle Furnace	1.5Kw	07.11.2009
			Thermocouple	К Туре	07.11.2009
			Thyristor power controller		07.11.2009
			Pressure Transmitter	STG14L	09.11.2009
			Pneumatic Controller with Actuator		09.11.2009
			I to P converter	3 to 15 Psi	09.11.2009
			Aeromatic Compressor		09.11.2009
			Air filter regulator		09.11.2009
			Pump	0.5 Hp	02.03.2015
		20	Electromagnetic Flowmeter		09.11.2009
	5		Storage Tank	225 Lit, 375 Lit	09.11.2009
5			Pump	0.5 Hp, 220V	10.02.2016
Э			Ultrasonic Level Transmitter	943-F4Y- 2DLD0-300E	09.11.2009
			Electrical Actuator motorized valve	MLT7421	09.11.2009
			impeller		09.11.2009
	Process Control Lab		laminar flow tunnel	150mm	09.11.2009
			Butterfly damper		09.11.2009
			Smart transmitter	STD110	09.11.2009
			Direct coupled damper actuator		09.11.2009
			Orifice plate		09.11.2009
			Motor	1HP, 230 V	09.11.2009
			PLC software with hardware		09.11.2009
			Computer	Pentium Core 2 duo	09.11.2009
			DCS	8 channel input, 4 channel output	09.11.2009
			Computer	Pentium Dual Core	09.11.2009
			KELVIN DOUBLE BRIDGE		03/08/12
			ANDERSON BRIDGE		03/09/12
c		20	DE-SAUTY BRIDGE		03/10/12
0		20	POWER MEASUREMENT USING CT & PT	03/11/12	
			WATTMETER CALIBRATION USING DC POTENTIOMETER		03/12/12

			PMMC TYPE WATTMETER		03/13/12
			PMMC TYPE AMMETER		03/14/12
			PMMC TYPE VOLTMETER		03/15/12
	Electrical		MULTIMETER		03/16/12
	Instrumentation and Measurement Lab		POTENTIOMETER		03/17/12
			GALVANOMETER(BALLASTIC)		03/18/12
			SLIDING JOCKEY		03/19/12
			PATCH CORD		03/20/12
			SINGLE PHASE INDUCTION TYPE ENERGY METER		03/21/12
			LOADING RHEOSTAT(2.5KW,250V)		03/22/12
			STOPWATCH DIGITAL		03/23/12
			MOVING IRON AMMETER (0- 5A)		03/24/12
			MOVING IRON VOLTMETER (0-300V)		03/25/12
			MOVING IRON WATTMETER (300V/10A)		03/26/12
		22	Bread board		
			LCD (JHD162A)	16 X 2	19.08.2014
			POTENTIOMETER	10K, 5K	19.08.2014
			CAPACITOR	1000μF, 470μF, 10μF, , 1μF, 30pF	19.08.2014 05.09.2018
			STRIPPER		05.03.2014
			SOLDER WIRE		14.08.2014
			SOLDERING IRON		14.08.2014
7			SOLDERING PASTE		14.08.2014
,			SINGLE STRAND WIRE		05.03.2014
	Instrumentation and		Pin connector	2 Pin, 3 Pin, 4 Pin, 5 Pin, 6 Pin, 8 Pin, 9 Pin	05.09.2018
	& Project Lab		Bar strip connector	10/40	05.09.2018
	j		Jumper Wire connector	M-M	05.09.2018
			Single string wire		02.09.2019
	Re		Resistor	470K/1W, 100 ohm/1W	05.02.2019
				0.47microF/400v	05.02.2019

	Breadboard		02.09.2019
	IC-741, NE-565, NE-566, IC-7483, IC-7400, IC-7402, IC-7486		02.09.2019
	FET	BFW 10	02.09.2019
	Resistor	10K, 2.2K	02.09.2019
	Resistor	1K, 100K	05.09.2018
	Transistor	BC547, CK100, CL100, BFW10	05.09.2018
	Glue gun		05.09.2018
	Transistor	BC 547	05.02.2019
	Capacitor	10microF, 1 microF, 300pF	07.09.2018
	IC	IC-555, IC-741	05.09.2018
	LCD	(16X2)	02.01.2019
	Potentiometer	10K	25.01.2019

F. DETAILS OF ICT TOOLS: Projector, LAN with Computer, Moodle, NPTEL, Coursera, EDX, Microsoft Team, Zoom, Google meet

G. FACULTY DETAILS

SI. No	Name of the Faculty Member	Highest Qualification With Specialization	Experience (Years)	Roles & Responsibilities	Designation	Date of Joining
1	Indrajit Pandey	M.Tech in Instrumentation and Control	12	Active participation in research work, Guidance to students for paper presentation and project competition, Mentoring Students, Fees Collection, MAKAUT examination question paper setting, MAKAUT Examination paper evaluation, NBA support, To Guide the department both academic and administrative as an HOD Member in :- 1. Examination Cell, 2. Sports committee, 3. Academic committee, 4. Cultural committee, 5. Hostel committee, 6. Disciplinary committee	Assistant Professor	23-Jul-07

2	Rajib Barui	M.Tech in Instrumentation and Electronics Engineering	14	Active participation in research work, Guidance to students for paper presentation and project competition, Mentoring Students, Fees Collection, Mark sheet distribution, MAKAUT examination question paper setting, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, MAKAUT Examination paper evaluation, Mentoring data Upload, NBA support, To Guide the department both academic and administrative Member in :- 1. Anti ragging Committee	HOD	18-Feb- 08
3	Nantu Das	M.Tech in Instrumentation and Control	10	Active participation in research work, Guidance to students for paper presentation and project competition, Mentoring Students, Fees Collection, Mark sheet distribution, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, NBA support, Maintain the Departmental Library. Member in :- 1. Routine Committee	Assistant Professor	09-Feb- 09
4	Suvobroto Banerjee	M.Tech in MICROELECTRONICS & INSTRUMENTATION	9	Active participation in research work, Guidance to students for paper presentation and project competition, Mentoring Students, Fees Collection, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, NBA support. Member in :- 1. Admission cell(Core committee), 2. T&P Cell	Assistant Professor	11-Aug- 10
5	Joyita Biswas	M.Tech in Microelectronics and VLSI	9	AEIE Website content Developer, Active participation in research work, Guidance to students for paper presentation and project competition, Mentoring Students, Fees Collection, MAKAUT Examination paper evaluation, MAKAUT and other Examination Invigilation.	Assistant Professor	18-Aug- 10

				Active participation in research work, Guidance to students for paper presentation and project competition Mentoring		
6	Abhijit Kumar Bhagat	M.Tech in Control & Instrumentation	11	Students, Fees Collection, Mark sheet distribution, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, MAKAUT examination question paper setting, Exam Form Fill up and verification, NBA support. Member in :- 1. Entrepreneurship cell, 2. Anti Ragging Squad	Assistant Professor	02-Jul-12
7	Soumyajit Datta	M.Tech in Instrumentation and Control	6	Active participation in research work, Guidance to students for paper presentation and project competition, Mentoring Students, Fees Collection, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, NBA support. Member in :- 1. Sports Committee, 2. Science club.	Assistant Professor	16-Jul-13
8	Sayani Sengupta	M.Tech in Control & Instrumentation	7	Active participation in research work, Guidance to students for paper presentation and project competition,Mentoring Students, Fees Collection, Exam Form Fill up and verification, MAKAUT examination question paper setting, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, NBA support.	Assistant Professor	23-May- 12
9	Samrat Banerjee	M.Tech in Electronics & Communication	4	Active participation in research work, Guidance to students for paper presentation and project competition,Mentoring Students, Fees Collection, Mark sheet distribution, Exam Form Fill up and verification, MAKAUT examination question paper setting, MAKAUT and other Examination Invigilation, MAKAUT Examination paper evaluation, NBA support.	Assistant Professor	27-Aug- 15

H. CHOICE BASED ELECTIVE COURSE

Semester	No. of elective course offered by the University	No. of elective course offered by the Department	No. of elective course chosen by the students		
5	5	4	2		
6	7	4	2		
7	6	4	2		
8	7	4	2		

I. COURSE DELIVERY:

Voar / Somostor (Theory	From C	From Core Dept		From O	ther Dep	pt	To Other Dept		
& Labs)	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits
Ι									
II									
III	7	8	18	6	2	3	3	3	7
IV	4	5	13	6	5	10.5			
V	3	7	17	4	5	12			
VI	7	7	16.5	3	4	6.5			
VII	9	4	13	1	1	3			
VIII	9	2	11	2	2	5	1	1	3

J. WORKLOAD DETAILS:

Sl. No	Name of the faculty member	Name(s) of the Theory/Lab	No. o Cour	No. of No. of Courses Periods Cl		Credits	Work Load	Completion Status	
			Т	Р	Т	Р		Louu	
		Control System Lab(PC- EI591)		1		6	1.5	6	Completed
		Control System(PC-EI501)	1		4		3	4	Completed
		Seminar(EI581)		1		3	2	3	Completed
		Project I (PW EI791)		1		6	4	6	Completed
1.	Indrajit Pandey	Digital Control System(PE- EI702)	1		2		3	2	Completed
		Electrical & Electronic Measurement PC-EI 491		1		3	1.5	3	Completed
		Mini Project (MP 401)		1		1		1	Completed
		Process Control (PC-EI601)	1		2		3	2	Completed
		Process Control Lab (PC- EI691)		1		6	1.5	6	Completed
		Project II (PW EI881)		1		6	8	6	Completed

		Automation & Control(OCME801G)	1		3		3	3	Completed
		Analog Integrated Circuit(PC-	1		4		3	4	Completed
		Circuits and Network Lab(PC- EI391)		1		3	1.5	3	Completed
		Analog and Digital Electronics (ESC 301)	1		3		3	3	Completed
		Analog Circuits Design Lab (PC EI393)		3		3	1.5	3	Completed
		Seminar(EI581)		1		3	2	3	Completed
2		Project I (PW EI791)		1		3	4	3	Completed
2	Rajib Barui	Electrical & Electronic Measurement PC-EI 401	1		3		3	3	Completed
		Mini Project (MP 401)		1		1		1	Completed
		Instrumentation System Design Lab (PC-EI692)		1		6	1.5	6	Completed
		Electrical & Electronic Measurement Lab PC-EI 491		1		3	1.5	3	Completed
		Project II (PW-EI881)		1		6	8	6	Completed
		Power Plant Instrumentation (PE-EI801)	1			2	3	2	Completed
		Sensors and Transducers Lab(PC-EI392)		1		3	1.5	3	Completed
		Sensors and Transducers(PC- EI302)	1		2		3	2	Completed
	Nantu Das	Industrial Instrumentation Lab(PC-EI592)		1		6	1.5	6	Completed
		Communication Techniques(PC-EI502)	1		3		3	3	Completed
		Project I (PW EI 791)		1		3	4	3	Completed
3		Industrial Instrumentation PC- EI 402	1		2		3	2	Completed
		Microprocessor and Microcontroller Lab (PC EI 492)		1		3	1.5	3	Completed
		Soft Computing (OE EI 604)	1		2		3	2	Completed
		Process Control Lab (PC- EI691)		1		6	1.5	6	Completed
		Project II (PW-EI881)		9		10	8	9	Completed
	Suvobroto	Project-1(PW-EI791)		1		12	4	12	Completed
4	Banerjee	Industrial Instrumentation Lab (PC EI592)		1		3	1.5	3	Completed
		Industrial Instrumentation Lab(PC-EI592)		1		6	1.5	6	Completed
		Optical Instrumentation(PE- EI501)	1		4		3	4	Completed
	Joyita Biswas	Analytical Instrumentation(PE-EI703)	1		4		3	4	Completed
5		Analog Circuits Design Lab (PCEI393)		3		3	1.5	3	Completed
		Project I (PW EI 791)		1		3	4	3	Completed
		Mini Project (MP 401)		1		3		3	Completed
		Instrumentation System Design Lab (PC-EI692)		1		6	1.5	6	Completed
		Digital Signal Processing (OE EI 603)	1		4		3	4	

		Power Plant Instrumentation (PE-EI801)	1		2		3	2	Completed
		Project II (PW-EI881)		1		9	8	9	Completed
		Network Analysis(PC-EI301)	1		4		2	4	Completed
		Circuits and Network Lab(PC- EI391)		1		3	1.5	3	Completed
		Seminar(EI581)		1		3	2	3	Completed
	Abhijit Kumar	Non-Conventional Energy System(OE-EI702)	1		4		3	4	Completed
	Bhagat	Project I (PW EI 791)		1		9	4	9	Completed
6		Microprocessor & Microcontroller PC-EI 403	1		4		4	4	Completed
		Microprocessor & Microcontroller Lab PC-EI 492		1		3	1.5	3	Completed
		Internet of Things (OE-EI601)	1		2		3	2	Completed
		Internet of Things Lab (OE- EI691)		1		6	1.5	6	Completed
		Project II (PW EI881)		1		6	8	6	Completed
7	Soumyajit Datta	Control System Lab (PC EI 591)		1		3	2	3	Completed
/	Dalla	Project-1(PW-EI791)		1		12	4	12	Completed
	Sayani	Sensors and Transducers Lab(PC-EI392)		1		3	1.5	3	Completed
		Sensors and Transducers(PC- EI302)	1		2		3	2	Completed
		Basic Electronics Lab (Civil) (CE-(ES)391)		1		3	2	3	Completed
		Project-1(PW-EI791)		1		6	4	6	Completed
		Digital Control System(PE- EI702)	1		2		3	2	Completed
8	Sengupta	Soft Computing Techniques(OE-EI604)	1		3		3	3	Completed
		Instrumentation System Design Lab (PC-EI692)		1		6	1.5	6	Completed
		Industrial Instrumentation PC- EI 402	1		2		3	2	Completed
		Microprocessor & Microcontroller Lab PC-EI 492		1		3	1.5	3	Completed
		Mini Project (MP 401)		1		3		3	Completed
		Project II (PW-EI881)		1		6	8	6	Completed
		Digital Circuits Design Lab(PC-EI394)		1		3	1.5	3	Completed
		Digital Electronic Circuits(PC- EI304)	1		4		3	4	Completed
Q		Analog and Digital Electronics (ESC 301)	1		3		3	3	Completed
9	Samrat	Analog and Digital Electronics Lab (ESC 391)		1		8	2	8	Completed
	Banerjee	Process Control Lab (PC- EI691)		1		6	1.5	6	Completed
		Biomedical Instrumentation (PC-EI602)	1		4		3	4	Completed

Internet of Things (OE-EI601)	1	2	3	2	Completed
Internet of Things Lab (OE- EI691)	1	6	1.5	6	Completed
Project II (PW-EI881)	1	3	8	3	Completed

****** Add additional sheet if necessary

K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	0	0	4	3	4	5	3	1	20
No. of courses for which course lesson plans are not prepared	0	0	0	0	0	0	0	0	0
No. of courses verified by internal verifier (Senior Faculty/HOD)	0	0	4	2	4	4	3		17
No. of courses for which the Lesson Plans are modified after verification	0	0	0	0	0	0	0	0	0
No. of courses not verified	0	0	0	1	0	1	0	1	3

(Evidence to be verified: course lesson plan documents) (Keep all Lesson planes in single file)

L. STUDENT MENTORING SYSTEM:

Whether the mentors are updating mentor books and conducting counseling meetings regularly or not? Note: Check Mentor books for Auditing

S. No	Name of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1.	Indrajit Pandey	18705519034- 18705519040 18705521023- 18705521024	7+2	16	All students were found to be in good mental wellbeing. Few students were identified as slow learners. Remedial classes were arranged as per requirement.
2.	Rajib Barui	18705520013-1870552016 18705521022	4	8	The academic performance of all the students were found to be satisfactory
3.	Nantu Das	18705518003- 18705518007 18705519008- 18705519014	5+7	16	The academic performance of all the students were found to be satisfactory along with their mental well beings.
4.	Suvobroto Banerjee	18705518022- 18705518025 18705519044- 18705519046	4+3	16	The academic performance of all the students were found to be satisfactory
5.	Joyita Biswas	18705518026- 18705518035 18705519015- 18705519020 1870552005-1870552008	9+6+4	24	The academic problems and performance of the students are identified along with their mental well beings and based on it further actions were taken.
6.	Abhijit Kumar Bhagat	18705518012- 18705518016 18705519027- 18705519033 1870552009-1870552012	5+6+4	24	All students were found to be in good mental wellbeing. Few students were identified as slow learners. Remedial classes were arranged as per requirement.
7.	Soumyajit Datta	18705518036- 18705518040 18705519001- 18705519007	5+4+8	24	The overall performance of all the students were found to be satisfactory.
8.	Sayani Sengupta	18700513031- 18700513035 18705514029-	5+7	16	All students were found to be in good mental well- being. Few students were identified as slow learners. Remedial classes were arranged as per

		18705514032			requirement.
9.	Samrat Banerjee	18700513041- 18700513046 18705514033- 18705515059 1870552001-1870552004	5+5+4	24	All students were found to be in good mental well- being. Few students were identified as slow learners. Remedial classes were arranged as per requirement.

M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

Sl. No.	Faculty Name	Cell/ Committee/ Club
1	Indrajit Pandey	1. Examination Cell, 2. Sports committee, 3. Academic committee, 4. Cultural
		commutee, 5. Hoster commutee, 6. Disciplinary commutee
2	Rajib Barui	1. Anti ragging Committee, 2. Hridmajhare club of performing art 3. Admission,
3	Nantu Das	1. Routine Committee 2. Institution's Innovation Council, 3. Photography Club, 4. Art
		Club, 5. M. Tutor
4	Joyita Biswas	1.Internal Complaint Committee, 2. Kanyashree Club, 3. Literary Club
5	Abhijit Kumar Bhagat	1. Entrepreneurship cell, 2. Anti Ragging Squad, 3. TINT talkies(Film & Drama Club), 4.
		Training and Placement cell, 5. Routine Committee.
6	Sayani Sengupta	1. Admission cell(Core committee), 2. Hridmajhare club of performing arts,
7	Samrat Banerjee	1. Training & Placement Cell, 2. Admission Cell, 3. Routine 4. Sports Committee, 5.
		W DJEE KC, 0. Sports Committee, 7. 1855

N. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/National/State/University/Inter College/ Intra College	Total no of participation
Expert				
Talk				
FDP				
Seminar				
Workshop				
Conference				

O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/National/State/University/Inter College/ Intra College	Total no of participation
Expert Talk				
FDP	3	6	Intra College	
Seminar				
Workshop	1	3	National	
Conference				

P. ACHIEVEMENTS OF THE STUDENTS/FACULTY MEMBERS IN EXTRA/CO CURRICULAR ACTIVITIES

Sl. No.	Event Description	Organized by	Student Name	Faculty Name	International/National/State/University/Inter College/ Intra College
1	1 minute talent hunt in Festivista 1.0	ME dept., TINT	Sourya Bhattacharyya		Intra College
2	Music competition named "Sarangi" inTechnonites	IT dept., TINT	Sourya Bhattacharyya		Intra College

Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION: 0 R. NO. OF STUDENTS PLACED: 30 S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Indrajit Pandey	Assistant Professor
2	Rajib Barui	Assistant Professor
3	Nantu Das	Assistant Professor
4	Abhijit Kumar Bhagat	Assistant Professor

T. MINUTES OF THE DEPT. MEETING: Yes/No

Internal Department Meeting minutes showing the discussion on the following issues (Ref. Department Meetings Register Maintenance)

- 1. Subject Allocation
- 2. Lesson plans
- 3. Syllabus Coverage
- 4. Mentoring

Comments of the auditor:

U. DEPARTMENTAL RESEARCH INITIATIVES

ТҮРЕ	INT.	JOURN	NAL	BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	4					4
Student-						
Faculty						

V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	At the very preliminary level the domains of the projects are to be selected through the departmental meeting that will be conducted throughout the fourth year curriculum for final semester submission. After that the domains are given to the departmental students for opting in without disclosing the name of the corresponding guides. For each domain maximum two groups can be selected. Forming a group is the student's responsibility for better team work within them, the teacher will not take part in this matter. When the students finalize the team, the guide for respective project domain is revealed.
NO OF PROJECT GROUPS	7
NO OF PROJECT PROGRESS REPORTS SUBMITTED	14

W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS

X. DETAILS OF IPR

Sl. No.	Patent	Copyright	Details of IPR	Faculty involved	Student involved

Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT (List out and Describe)

- 1. Students are being motivated to construct innovative projects from 2nd year beyond their curriculum and to participate in different technical competitions.
- 2. To make the students prepared for documenting their respective work as Paper presentation (Conference/Journal).
- 3. To encourage students to take part in extracurricular activities inter college & intra college level.

Comments of the auditor:

Z. VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with 30 or more contact hours) offered	Duration of course (Hours)	Number of students enrolled in the year	Number of Students completing the course in the year	Remarks
1.	Employability Enhancement Program	30 Hrs	38	38	23.08.2021 - 04.09.2021
2.	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	30 Hrs	46	46	23.08.2021 - 04.09.2021
3.	Programming for complex problem solving using pseudocode	30 Hrs	46	46	23.08.2021 - 04.09.2021
4.	Programming with Python	30 Hrs	46	46	31.01.2022 - 11.02.2022
5.	Data Analysis, Visualization And Scientific Computation With Matlab	30 Hrs	17	17	23.08.2021 - 04.09.2021

AA.SWOC ANALYSIS:

SWOC	ANALYSIS	
STRENGTH:	AEIE Dept is all about the strong cohesion between faculties & pupils. Continuous mentoring & motivation establishes the special bonding between both. This approach makes them prepared for a good future team player in their professional endeavor. Beyond curricular the department also focuses on the extracurricular activities like cultural session, photography session, sports activity etc which encash the students to feel comfortable beside the academics.	
WEAKNESS:	Despite the automation industry playing a vital role in the job market as well as in processing industries students find least interest due to lack of PSU opportunities, not s good advertising of private or undertaking automation companies in India. Beyond this value of this basic course has not earned high credibility in the competitive job market.	
OPPORTUNITIES:	The syllabus is structured in such a way that students can make their career in both electronics, instrumentation and software-based companies. In campus job drives also play an efficient role to meet this purpose. For PSU jobs, higher studies one can appear both in Electronics & Communication & Applied Instrumentation in GATE Examination. There is a huge scope to strengthen the students in the computational domain via strong participation in IOT based projects interdepartmentally.	
CHALLENGES:	Instead of many students get placed in hardware-based companies who used to visit our campus, the lack of core related subjects in the curriculum is a big challenge. The structure of the academics in our country has not taken any proper initiatives to make the people	

Techno International New Town Academic Audit Evaluation Report

Assesment Year (3 yrs.): 2019 - 2022

Clause No.	Score in 5 point scale (Full Marks 130)		Bomories
	Internal Auditor	External Auditor	Kemarks
В	3.5	0.5	
С	5	5.0	
D	4	3.8	
E	4	3.2/	
F	0	3.4	
G	4	3.8	
н	5	5.17	
1	5	5.0	
J ,	4.5	4.3	
к	4	3.8	
L	4	AIC	
М	5	119	
N	2	1.2	
0	4	3.5	
Р	3.5	3.3	
Q	2	1.3	
R	4	3.8	
S	4	4.0	
Т	4	1.0	
U	3	1.5	
v	4	3.2	
W	0	-	
X	0	_	
Y	4	3.8	
Z	4.5	4.2	
AA	4	3.8	
TOTAL	95	84.3	

	Name	Designation	Affiliation	Signature '
External Auditor	CHANCHAL DEY	ASSOC. PROF.	C.V.	Kent
Internal Auditor	Rajib Barni	Assistant Arof.	TINT	Boy
Internal Auditor	Indrailit fandey	Assistant Boof.	TINT	Fandy
QAC Coordinator	Dr. Ayan Chabras	Associate Brot.	Dept. of IT, TINT	Phahat
HoD	Nanth Das	Assistant Professor	AEIE, TINT	Nanta Das
Director	Dr. P.J. GOLWANNI	Dimector	TINT	() mmm)

Associate Professor Department of Applied Physics University of Calcutta

ACADEMIC AUDIT REPORT REMARKS

(AY 2021-22)

A. Department Details	Department of AEIE, Techno International New Town
B. Faculty/ Staff Strength	Adequate to meet standard
C. Student Faculty Ratio	Consistently maintaining required ratio
D. No Of Laboratories	Lab courses are equipped in 5 labs
E. Details of the Equipments in Labs	Need additional instruments/ equipments/ software kits
F. Details of ICT Tools	Projector, LAN with Computer, Moodle, NPTEL, Coursera, EDX along with Microsoft Team, Zoom, Google meet, VLAB as there are so much provisions to conduct classes by digitization mode.
	expertise in domain knowledge/ well versed in academic administration
H. Choice Based Elective Course	Limited scope as department follows University regulations. However, in the MAKAUT syllabi, there are good numbers of Electives which are offered based on students' choice
 Course Delivery 	Courses are taught by departmental its own faculty as well as faculties from other corresponding departments. Study materials are being given to students along with the notes uploaded in moodle. Power point & white board are a such a great communicative medium for black box type teaching
J. Workload details	Standard work load pattern is followed. In this context it must be admitted remedial/ tutorial classes are also being arranged for benefits of pupils.
K. Course Lesson Plan & Verification	Practicing lesson plan as per standard and shared among students.
L. Student Mentoring System	It is continuous process belong to students of each year which is being practiced properly.
M. Details of Nonacademic Responsibility	Faculties being in different roles are assigned with various committees such as student welfare (Clubs, Sports, Cultural), Anti-Ragging, Disciplinary, Placement Cell, DAC, UC etc.
N. Expert Talk/FDP/ Seminar/ Conference/ Workshop organized	Conducted seasonally in online mode.
O. Expert Talk/FDP/ Seminar/ Conference/ Workshop Attended	Faculties are encouraged to attend those for improvisation of skills that benefit their own & the students in-spite of havoc break down of pandemic.
P. Achievements of the Students/ Faculty Members in Extra/ Co- curricular activities	Students from AEIE participated in various inter college technical event competition, extracurricular & honored by some rewards.
Q. No of students opted for higher education	Students are qualified in GATE/ GRE, studying in abroad, IIT, IIM.
R. No of students placed	AEIE dept. has a good track record of placements be it in MNCs or Govt. job securement. Records are available with Departmental Placement Coordinator.
S. Departmental Academic Committee (DAC)	It is functional obviously consisting four members. Conduction of DAC meeting along with keeping record are <u>maintained</u> .



Τ.	Minutes of the Departmental Meeting	The objectives include all academic matters e.g. subject allocation, syllabus coverage, mentoring, assessment etc. All the minutes of meetings are kept in departmental records.	
υ.	Departmental research initiatives	Faculties who have initiated their work have been registered in renowned universities and others are also in the process.	
V.	Student project mentoring system	Forming a group is the student's responsibility for better team work after choosing a domain given to them. When the students finalize the team, the guide for respective project domain is revealed.	
W.	Departmental Project Initiatives	In-spite of exhibiting projects in different forum, no Govt. or private sectors has not granted.	
Χ.	Details of IPR	NIL	
Y.	Best Practices Followed in the Department	 Students are being motivated to construct innovative projects from 2nd year beyond their curriculum and to participate in different technical competitions. To make the students prepared for documenting their respective work as Paper presentation (Conference/Journal). To encourage students to take part in extracurricular activities inter college & intra college level. 	



Comments of the auditor:

Name & Signature of the Name & Signature of the HoD Name and Signatures **IQAC Coordinator** Dr. Agan Chabocaborty NANTU DAS Abababel . Wantu DAS 18/02/2022 of Internal Auditors 1. Rajib Burni 2. Endregt Panoley



Associate Professor Department of Applied Physics University of Calcutta