### EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT



# TECHNO INTERNATIONAL NEW TOWN Department of Basic Science & Humanities Department

### A. DEPARTMENT DETAILS

Name of Department:	Basic Science an	nd Humaniti	es					
Name of Programme:	B. Tech, MCA	, M.Tech						
Academic year	2018-19							
Student Intake	738							
No. of enrolled student	482							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	BS-PH101 BS-CH101 BS-M101 BS-M102	BS-PH201 BS-CH201 BS-M201 BS-M202 HM- HU201						
No. of Practical classes offered	BS-PH191 BS-CH191	BS-PH291 BS-CH291 HM- HU291						

# **B. FACULTY/STAFF STRENGTH: 31**

### C. STUDENT FACULTY RATIO: 16:1

### D. NO. OF LABORATORIES: 6

### E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

### ENGLISH

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

# PHYSICS

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	PHYSICS LAB	30			
	1		Young's modulus	Determination of Young's modulus	
2	PHYSICS LAB	30		Determination of Young's modulus (Not	
	2		Young's modulus (Not Working)	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 semiconductor	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 Diffraction method (not working)	LASER Diffraction 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 working)
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	

### CHEMISTRY

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	CHEMISTRY LAB 1	30	Steel Almirah	Large size iron almirah	
2	CHEMISTRY LAB 2	30	Tables with cabinet	Wooden cabinet	
3			Refrigerator	For keeping sensitive chemicals.	
4			Conductivity Meter	Meter Determine conductance of solutions	
5			pH Meter	Determine pH of solutions	
6			Laboratory orbital shaker	Properly mixing solutions	
7			Acid Fume Chamber	Use to keep different concentrated acid.	
8			Stop watch	For viscosity measurement purpose.	
9			Weighing machine	Use to balance different reagent.	
10			Heating mantle	For solutions preparation.	
11			Magnetic stirrer	For solutions preparation.	
12			Marker board		

### 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 Skill Junction software in Language Laboratory

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

# **G. FACULTY DETAILS:**

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	6 Years	<ol> <li>Faculty member of Chemistry</li> <li>Member of Anti-ragging</li> <li>Committee</li> <li>Member of Sports Committee</li> <li>Mentor of 1st year AEIE</li> <li>students.</li> <li>Update the Leave status of</li> <li>Department.</li> </ol>	ASST PROFESSOR	7/24/2012
2.	Dr. PARTHA PRATIM CHAKRABARTY	PhD	5 Years	<ol> <li>Faculty member of Chemistry &amp; Environmental Chemistry</li> <li>Member of Anti-ragging Squad</li> <li>Subject Coordinator of Departmental Academic Committee</li> <li>Nodal Officer of the College</li> <li>Member of Science &amp; Tech Club</li> <li>Member of College NSS unit</li> <li>Member of College Routine Committee</li> <li>Member of 1 st year ECE students.</li> </ol>	ASST PROFESSOR	10/23/2013
3.	Ms. BARNALI DUTTA ROY	M.Sc	7 Years	<ol> <li>Faculty member of Chemistry</li> <li>Member of Academic</li> <li>Committee</li> <li>Subject coordinator of</li> <li>Chemistry</li> <li>Member of Anti-ragging</li> <li>committee</li> <li>Mentor of 1 st year EE students</li> </ol>	ASST PROFESSOR	7/23/2011
4.	Mr. BABLU MAITY	M.Sc , M.Ed.	2 Years	1.Faculty member of Chemistry	ASST PROFESSOR	3/31/2017
5.	Ms. BARNIMA GHOSAL	M.Sc. in Mathematics	4 Years	<ol> <li>Faculty member of Mathematics</li> <li>Mentor of EE 1<sup>st</sup> year</li> </ol>	ASST PROFESSOR	5/8/2015

				students 3. Committee member of NSS Unit		
6.	Mr. SAYANTAN MAJUMDER	M.Sc in Mathematics	3 Years	<ol> <li>Faculty member of Mathematics</li> <li>Mentor of 1 st year CSE students.</li> <li>Member of Routine Committee.</li> </ol>	ASST PROFESSOR	2/1/2016
7.	Mrs. SANJUKTA CHAKRABORTY	M.Sc.	2 Years	<ol> <li>Faculty member of Mathematics.</li> <li>Mentor of 1 st year ECE students.</li> <li>Member of Routine Committee.</li> <li>Member of ICC</li> <li>Member of Antiragging Committee</li> <li>Co-convenor of HRIDMAJHARE – TINT Club of Performing Arts.</li> <li>Member of research and Development Committee</li> </ol>	ASST PROFESSOR	5/2/2017
8.	Ms. MADHURIMA DUTTA ROY	M.Sc.	2 year	Faculty member of Mathematics	ASST PROFESSOR	4/13/2017
9.	Mr. AMALENDU SINGHA MAHAPATRA	M.Sc in Applied Mathematics	11 Years	<ol> <li>Member of BSH Academic Committee</li> <li>Member of TINT Exam Cell</li> <li>SPOC of CA for College Code- 187</li> <li>Member of Anti-ragging Committee</li> <li>Coordinator of TINT Sports Committee</li> <li>Member of TINT NSS Unit.</li> <li>Member of Cultural Committee</li> <li>Mentor of 1<sup>st</sup> years students</li> </ol>	ASST PROFESSOR	8/9/2007
10.	Mrs. PAPIYA DEBNATH	Ph.D in Applied Mathematics	11 years	1.Member of BSH Academic Committee	ASSOCIATE PROFESSOR	8/22/2007

				<ol> <li>Member of Anti-ragging Committee</li> <li>Member of NAAC/NBA Core Committee</li> <li>Mentors of 1<sup>st</sup> year Students</li> <li>Member of TINT NSS Unit.</li> <li>Member, TINT Photography Club</li> </ol>		
11.	Dr. KAKALI GHOSH	Ph.D	10 years	Faculty of Mathematics	ASSOCIATE PROFESSOR	8/4/2008
12.	Dr. MALA MITRA	Ph.D	4 Years	Faculty of Physics	ASSOCIATE PROFESSOR	8/6/2014
13.	Dr. ARPITA CHATTOPADHYAY	Ph.D	3 years	Faculty member of Physics. Mentor of 1 st year IT students. Member of Anti-ragging Committee	ASST PROFESSOR	8/3/2015
14.	Mrs. AVERI BANERJEE	M.Sc	13 years	<ol> <li>Member of BSH Academic Committee</li> <li>Member of TINT Exam Cell</li> <li>Chairperson of Anti-ragging</li> <li>Squad</li> <li>Member of Cultural Committee</li> </ol>	ASST PROFESSOR	8/19/2005
15.	Ms. ANINDITA RAY	M.Sc.	9 years	<ol> <li>Faculty of Physics in BSH,</li> <li>Mentor of ECE,</li> <li>Convenor, TINT Photography Club,</li> <li>Anti ragging Committee</li> <li>Internal Compliance</li> <li>Committee</li> <li>Department Academic</li> <li>Committee</li> </ol>	ASST PROFESSOR	9/1/2009
16.	Dr. SUMMAULI PYNE	PhD	4 years	Faculty of Management	PROFESSOR	3/11/2015
17.	Ms. RANJINEE BASU	MA	1 year	Faculty of English	ASST PROFESSOR	9/11/2017
18.	Mr. SOHAM MUKHERJEE	MA	1 year	Faculty of English	ASST PROFESSOR	9/9/2017
19.	Dr. SAYANTIKA BOSE CHAKRABORTY	M.A.	13 years	1. Convenor, Anti-Ragging Committee	ASSOCIATE PROFESSOR	8/17/2005

				<ol> <li>Convenor, Internal Complaint Committee</li> <li>Convenor, LITWITS – TINT Literary Club</li> <li>Member, Grievance Redressal Committee</li> <li>Co-Convenor, social media Cell</li> <li>Member, NISP, TINT</li> </ol>		
20.	Dr. ANWESHA DUTTA AIN	M.A. (English); NET (UGC)	10 years	<ol> <li>Member of IQAC</li> <li>Co-coordinator of Disciplinary Committee</li> <li>Departmental Representative of Routine Committee</li> <li>Member of NAAC/NBA Core Committee</li> <li>Convenor of Departmental Academic Committee</li> <li>Lead Role in Promotional Activities done by BSH Dept.</li> <li>Mentor of B.Tech. 1<sup>st</sup> year students</li> </ol>	ASST PROFESSOR	7/28/2008
21.	Mr. BISWADEEP BANERJEE	MBA(Finance), M.Com, M.A(Eco), CSM	3 Years	Faculty of Management	ASST PROFESSOR	1/22/2016
22.	Mr. SUBIR KUMAR LAHIRI	MBA	6 Month	Faculty of Management	ASST PROFESSOR	7/10/2018
23.	Mr. KOUSHIK BHUKTA	MBA	2 Month	Faculty of Management	ASST PROFESSOR	12/3/2018
24.	MS. JAYEETA DAS	MSc	1 Month	Faculty of Chemistry	ASST PROFESSOR	1/04/2019
25.	MS. JAYEESHA CHAKRABORTY	MA	1 Month	Faculty of English	ASST PROFESSOR	1/09/2019
26.	MS. MILI ROY	MA	1 Month	Faculty of English	ASST PROFESSOR	1/04/2019
27.	MS. SATARUPA DEY	MSc	1 Month	Faculty of Mathematics	ASST PROFESSOR	1/04/2019
28.	MR. DIBYENDU SASMAL	MSc	1 Month	Faculty of Mathematics	ASST	1/09/2019

					PROFESSOR	
29.	MR. BISWAJIT MANDAL	MA	1 Month	Faculty of English	ASST PROFESSOR	1/04/2019
30.	MS. PIYALI MUKHERJEE	MA	1 Month	Faculty of English	ASST PROFESSOR	1/02/2019
31.	MS. SAYANTANI GHOSH	MA	1 Month	Faculty of English	ASST PROFESSOR	1/04/2019

# 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
NA	NA	NA	NA

# I. COURSE DELIVERY:

		From Co	re Dept.			From Othe	er Dept.			To Other	Dept.	
Year/ Semester (Theory &Labs)		No. of Faculty	No. of Courses	Credits		No. of Faculty	No. of Courses	Credits		No. of Faculty	No. of Courses	Credits
	BSM 101 (CSE, IT)	2	1	4	ES- EE101	2	1	4	HU 101(MCA)	1	1	1
	BSM102 (ECE, AEIE, EE, CE, ME)	5	1	4					MM101	1	1	4
Ι	BS CH 101 (ECE,EE,AEI E)	4	1	4	ES- EE191	2	1	1	HU191 ENG(MC A)	1	1	1
	BS PH 101(CS)	3	1	4								
	BS PH 101(CE)	2	1	4								

	BS PH 101(ME)	2	1	4						
	BS PH 101(IT)	2	1	4						
	BS PH 191(CS)	3	1	1.5						
	BS PH 191(CE)	2	1	1.5						
	BS PH 191(ME)	2	1	1.5						
	BS PH 191(IT)	2	1	1.5						
	BS CH 191(ECE,EE, AEIE)	4	1	1.5						
	HU101(ALL)		1	1						
	EEP(ALL)EN G	5	1	0						
	BSM201(CSE , IT)	3	1	4	ES-CS201	2	1	3		
	BSM202 (ECE, AEIE, CE, ME, EE)	7	1	4						
II	BS CH 201(CS,IT,CE ,ME)	4	1 each	4	ES- CS291	2	1	2		
	BS CH 291(CS,IT,CE ,ME)	4	1	1.5	ES- ME291	2	1	3		
	BS PH 201(ECE)	4	1	4	ES- ME292	2	1	3		

	BS PH 201(EE)	2	1	4						
	BS PH 201(AEIE)	2	1	4						
	BS PH 291(ECE)	2	1	1.5						
	BS PH 291(EE)	2	1	1.5						
	BS PH 291(AEIE)	2	1	1.5						
	HM(HU)201( ALL)	5	1	2						
	HM(HU)291( ALL)	6	1	1						
III							PH 301(CS)	2	1	4
							PH 301(CE)	3	1	4
							PH 301(ME)	3	1	4
							PH 301(IT)	2	1	4
							PH 391(CS)	2	1	2
							PH 391(CE)	3	1	2
							PH 391(ME)	2	1	2
							PH 391(IT)	1	1	2
							CH 301(ECE,	4	1each	3

				E	E,AEIE)			
				H	E,ME)	3	1	2
				(E E, A	EEP ENG)(CS ,IT,ECE, EIE,CE)	2	leach	0
				N 3 (S	MC(ES) 01 ECE SESSION AL)	2	1	0
				N 31	MC(ES) 01 AEIE	2	1	0
				(	CE BS)301 BIO	2	1	3
				С	E(ES)39 3 BIO	2	1	2
				B	S 301 EE BIO	2	1	3
				]	BS- BIO301	2	1	3
				N (E	ICS 301 EE, ECE, AEIE)	3	1	4
				1	MM301	1	1	4
				I	MM391	2	1	2
				(E	M 302 EE, ECE, AEIE)	4	1	4
				(E	ICS 391 EE, ECE, AEIE)	7	1	2

IV				CH 401(CSE T,CE,MI	,I 4	1	3
				HU481 (CSE,IT, CE,AEII CE)	E 6	1	1
				EEP ENG(EE ME)	, 2	1	0
				MC 481 ME(SES ONAL EVS)	SI 2	1	0
				MC 401 CSE (EVS)	2	1	2
				MC 401 IT EVS	2	1	1
				MC (EE 401 EE EVS	2	1	0
				MCS40 (CSE, IT CE, ME	, 7	1	4
				MM401 MCA)	1	1	4
				MCS49 (CSE, IT CE, ME	, 10	1	2
				M401 (CSE, IT	) 3	1	4
				M402 (CE, ME	) 5	1	4
V				CS503 (CSE, IT	) 2	1	4

					EEP MATH(E CEE, ME )	3	2	0
					EEP ENG(ALL )	3	1	0
VI					CS605A (CSE)	2	1	4
					EEP MATH(E CEE,ME )	3	1	0
					GATE Prep. Classes	5	1	0
					EEP ENG(ALL )	6	1	0
VII					HU781(C SE,IT,EC E,CE)	6	1	2
					ME783(M E)	4	1	2

A.T	HEORY						
Sl	Paper	Theor		Cont	tactH	Iou	Credit
Ν	Code	У			rs		Points
0				/V	Veek		
			L	Т	Р	Tota	
						1	
1	M 101	Mathematics-I	3	1	0	4	4
2	CH101/	Chemistry (Gr. A) /	3	1	0	4	4
	PH101	Physics -I(Gr.B)					

3	EE	<b>Basic Electrical</b>	3	1	0	4	4
	101/E	Engineering (Gr.					
	C101	A) /Basic					
		Electronics					
		Engineering(Gr. B)					
4	HU101	Communicative	2	0	0	2	2
		English					
5	ME101	Engineering	3	1	0	4	4
		Mechanics					
Tota	l of Theor	у				18	18
B.PI	RACTICA	L					
7	HU181	Extra-Curricular	0	0	2	2	1
		Activity(NSS/NCC)					
8	HU191	Lang. Lab. and	0	0	2	2	1
		Seminar Presentation					
9	CH191/	Chemistry Lab(Gr.A)/	0	0	3	3	2
	PH191	Physics -ILab(Gr. B)					
10	EE	<b>Basic Electrical</b>	0	0	3	3	2
	191/E	Engineering					
	C191	Lab(Gr.A)					
		/Basic Electronics					
		Engineering					
		Lab(Gr.B)					
11	ME191	Engg Drawing &	0	0	3	3	2
		Graphics (Gr					
		A)/Workshop					
		Practice (Gr-					
		B)					
Tota	l of Practio				13	08	

### J. WORKLOAD DETAILS: EVEN

S.No	Name of the Faculty	Name(s) of the	No. of	No. of	Work	Completion
	Member	Theory/Lab	Courses	Periods	Load	Status

			Т	Р	S	Т	Р	S		
1.	Ms. TAPOSI CHATTERJEE	BSCH201,BSCH29 1,CH401	2	1	0	11	6	0	17	Completed
2.	Dr. PARTHA PRATIM CHAKRABARTY	BSCH201,BSCH29 1	1	1	0	7	9	0	16	Completed
3.	Ms. BARNALI DUTTA ROY	BSCH201,BSCH29 1,CH401	2	1	0	7	9	0	16	Completed
4.	Mr. BABLU MAITY	BSCH201,BSCH29 1,CH401	2	1	0	12	6	0	18	Completed
5.	Dr. MALA MITRA	PH(EE)401,PH491	1	1	0	8	12	0	20	Completed
6.	Dr. ARPITA CHATTOPADHYAY	BS PH 201, BS PH 291, PH 401	2	1	0	11	9	0	20	Completed
7.	Mrs. AVERI BANERJEE	BS PH 201, BS PH 291, PH 401, PH(EE)401	3	1	0	9	9	0	18	Completed
8.	Ms. ANINDITA RAY	BS PH 201, BS PH 291, PH 401, PH(EE) 401	3	1	0	10	9	0	19	Completed
9.	Dr. SUMMAULI PYNE	HU601	1	0	0	3	0	0	3	Completed
10.	Ms. RANJINEE BASU	TPE401,TPE601,H MHU201,HMHU29 1,HU481	3	2	0	16	17	0	33	Completed
11.	Mr. SOHAM MUKHERJEE	TPE401,TPE201,T PE601,HMHU201, HMHU291,HU481	4	2	0	18	16	0	34	Completed
12.	Dr. SAYANTIKA BOSE CHAKRABORTY	HMHU201, HMHU291, HU 481,HU401	2	2	0	6	12	0	18	Completed
13.	Dr. ANWESHA DUTTA AIN	HMHU201, HMHU 291, HU481	1	2	0	8	14	0	22	Completed
14.	Mr. BISWADEEP BANERJEE	HU801,HU801B,H U601,HU801A,HU 401	5	0	0	24	0	0	24	Completed

15.	Mr. SUBIR KUMAR LAHIRI	HU801,HU601,HU 401,HU801A,CE60	5	0	0	23	0	0	23	Completed
		5B								
16.	Mr. KOUSHIK BHUKTA	BSM202,M402,MC S401,M401,MCS 491	4	1	0	16	18	0	34	Completed
17.	Ms. BARNIMA GHOSAL	BSM202,M401 MCS401, M402,MCS491	4	1	0	19	8	0	27	Completed
18.	Mr. SAYANTAN MAJUMDER	BSM202, M402, MCS491, BSM201	3	1	0	10	8	0	17	Completed
19.	Mrs. SANJUKTA CHAKRABORTY	BSM202, M402 (4) MCS401,MCS491	3	1	0	11	6	0	17	Completed
20.	Ms. MADHURIMA DUTTA ROY	MCS491,PH401,H U481,PH491	2	2	0	4	21	0	25	Completed
21.	Mr. AMALENDU SINGHA MAHAPATRA	BSM201,MM401, CS605A, MCS491	3	1	0	11	6	0	17	Completed
22.	Mrs. PAPIYA DEBNATH	BSM202,MCS401 MCS491,CS605A	3	1	0	12	4	0	16	Completed
23.	Dr. KAKALI GHOSH	BSM202,M402, MCS401, MCS491	3	1	0	11	4	0	15	Completed
24.	MS. JAYEETA DAS	BSCH201	1	0		4	0		4	Completed
25.	MS. JAYEESHA CHAKRABORTY	TPE201,TPE401,T PE601,HMHU201, HMHU291,HU481	4	2	0	23	6	0	29	Completed
26.	MS. MILI ROY	TPE201	1	0	0	4	0	0	4	Completed
27.	MS. SATARUPA DEY	BSM201,BSM201, MCS401,M401,HU 801A,MCS491	5	1	1	9	3	0	12	Completed
28.	MR. DIBYENDU SASMAL	BSM201,BSM202, M402,MCS401,MC	4	1	0	10	2	0	12	Completed

		S491								
29.	MR. BISWAJIT MANDAL	TPE201	1	0	0	4	0	0	4	Completed
30.	MS. PIYALI MUKHERJEE	TPE201	1	0	0	4	0	0	4	Completed
31.	MS. SAYANTANI GHOSH	TPE201,TPE401,H MHU201,HMHU29 1	3	1	0	7	8	0	15	Completed

# WORKLOAD DETAILS: (2018 – 2019) ODD

S.No	Name of the Faculty Member	Name(s) of the Theory/Lab	No	. of Cour	ses	No	. of Peric	ods	Work Load	Compl etion Status
			Т	Р	S	Т	Р	S		
1.	Ms. TAPOSI CHATTERJEE	BSCH101, CH301, BSCH191	2	1	0	17	9	0	26	Completed
2.	Dr. PARTHA PRATIM CHAKRABARTY	BSCH101, CH 301,BSCH191	2	1	0	12	12	0	24	Completed
3.	Ms. BARNALI DUTTA ROY	BSCH101,CH30 1,BSCH191	2	1	0	13	9	0	22	Completed
4.	Mr. BABLU MAITY	PH301, CH301	2	0	0	4	0	0	4	Completed
5.	Dr. MALA MITRA	BS PH 101,PH301,HU3 81,BSPH191,PH 391	2	3	0	13	30	0	43	Completed

6.	Dr. ARPITA CHATTOPADHYA Y	BS PH 101, BS PH 191, PH 391, PH 301	2	2	0	14	17	0	31	Completed
7.	Mrs. AVERI BANERJEE	BS PH 101, BS PH 191, PH 301, PH 391	2	2	0	11	10	0	21	Completed
8.	Ms. ANINDITA RAY	BS PH 101, BS PH 191, PH 301, PH 391	2	2	0	5	24	0	29	Completed
9.	Dr. SUMMAULI PYNE	HU501,HU301	2	0	0	6	0	0	6	Completed
10.	Ms. RANJINEE BASU	TPE101,TPE301, TPE501,HU781	3	0	1	16	0	17	33	Completed
11.	Mr. SOHAM MUKHERJEE	TPE101,TPE301, TPE501,HU381, HU781	3	1	1	30	6	6	23	Completed
12.	Dr. SAYANTIKA BOSE CHAKRABORTY	TPE101	1	0	0	4	0	0	4	Complete
13.	Dr. ANWESHA DUTTA AIN	TPE101, HU 101, HU191,ME783, HU781	2	1	2	8	4	9	21	Completed
14.	Mr. BISWADEEP BANERJEE	HU301,HU501	2	0	0	23	0	0	23	Completed
15.	Mr. SUBIR KUMAR LAHIRI	HU301,HU501	2	0	0	17	0	0	17	Completed
16.	Ms. BARNIMA GHOSAL	BSM102,MCS30 1,M302,MCS391	3	1	0	22	7	0	29	Completed
17.	Mr. SAYANTAN MAJUMDER	BSM101,BSM10 2,CS503,MCS39 1	3	1	0	11	8	0	19	Completed
18.	Mrs. SANJUKTA CHAKRABORTY	BSM102,M302, MCS391	2	1	0	5	6	0	11	Completed
19.	Ms. MADHURIMA DUTTA ROY	M302,PH301 PH391	2	1	0	10	3	0	13	Completed

20.	Mr. AMALENDU SINGHA MAHAPATRA	BSM101,MM10 1,MCS391	2	1	0	14	8	0	22	Completed
21.	Mrs. PAPIYA DEBNATH	BSM102,MCS39 1	1	1	0	10	4	0	14	Completed
22.	Dr. KAKALI GHOSH	BSM102 MM301,MCS39 1,MM391	2	2	0	14	13	0	27	Completed
23.	MS. JAYEESHA CHAKRABORTY	TPE501,HU381	1	1	0	3	9	0	12	Completed
24.	MS. SATARUPA DEY	M302	1	0	0	2	0	0	2	Completed

**\*\*** Add additional sheet if necessary

# K.COURSE LESSON PLAN PREPARATION AND VERIFICATION:

# Chemistry

Semester	Ι	II	III	IV	V	VI	VII	VIII	TOTAL
No. of oppress laggor plans	20	20	14	10					
prepared	20	20	14	10					
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									

### English

Semester	Ι	II	III	IV	V	VI	VII	VIII	TOTAL
No. of course lesson plans prepared	03	03	02	02	01	01	02		14
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)	03	03	02	02	01	01	02		14
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

### Physics

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

#### Biology

Semester	Ι	II	III	IV	V	VI	VII	VIII	TOTAL
No. of course lesson plans prepared	-	-	1	1	-	-	-	-	2
No. of courses for which course lesson plans are not prepared	-	-	3	2	_	-	-	-	5

No. of courses verified by	-	-	1	1	-	-	_	_	2
internal verifier (Senior									
Faculty/HOD)									
No. of courses for which the	-	-	0	0	-	-	-	-	2
Lesson Plans are modified after									
verification									
No. of courses not verified	-	-	0	0	-	_	-	-	0

#### Management

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

(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

Sl. No.	Dept.	Name of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1	AEIE	Prof. Taposi Chatterjee	18705518003-12	10	9	All students were found to be in good mental health
2		Mr. Subir Kumar Lahiri	18705518013-22	10	7	All students were found to be in good mental health
3		Ms. Mili Roy	18705518023-32	10	8	All students were found to be in good mental health
4		Prof. Amalendu Singha Mahapatra	18705518033-040	8	8	All students were found to be in good mental health
5	CSE	Prof. Anwesha Dutta Ain	18700118017-37	21	9	All students were found to be in good mental health
6		Prof. Sayantan Majumder	18700118038-58	21	9	All students were found to be in good mental health
7		Ms. Satarupa Dey	18700118059-79	21	7	All students were found to be in good mental health
8		Dr. Mala Mitra	18700118080-100	21	7	All students were found to be in good mental health
9	CE	Prof. Arpita Chattopadhyay	18701318040-52	13	7	All students were found to be in good mental health
10		Dr. Summauli Pyne	18701318053-65	13	7	All students were found to be in good mental health
11		Mr. Dibyendu Sasmal	18701318066-78	13	7	All students were found to be in good mental health
12		Prof. Papiya Debnath	18701318079-92	13	8	All students were found to be in good mental health

13ECEProf. Kakali Ghosh18700318011-25158All students were found to be in good mental health14Prof. Partha Pratim Chakrabarty18700318026-40159All students were found to be in good mental health15Mr. Biswajit Mandal18700318041-55157All students were found to be in good mental health16Ms. Madhurima Dutta18700318056-68137All students were found to be in good mental health17Prof. Sanjukta Chakraborty18700318069-83158All students were found to be in good mental health18FEProf. Sayantika Bose Chakraborty18701618017-32167All students were found to be in good mental health19Ms. Piyali Mukherjee18701618033-47157All students were found to be in good mental health20Prof. Barnima Ghosal18701618048-62158All students were found to be in good mental health21Prof. Barnali Dutta Roy18701618048-62157All students were found to be in good mental health22Prof. Barnali Dutta Roy18701618078-93168All students were found to be in good mental health23Prof. Soham Mukherjee18701618094-109166All students were found to be in good mental health	-							
14Prof. Partha Pratim Chakrabarty18700318026-40159All students were found to be in good mental health15Mr. Biswajit Mandal18700318041-55157All students were found to be in good mental health16Ms. Madhurima Dutta Roy18700318056-68137All students were found to be in good mental health17Prof. Sanjukta Chakraborty18700318069-83158All students were found to be in good mental health18EEProf. Sayantika Bose Chakraborty18701618017-32167All students were found to be in good mental health19Ms. Piyali Mukherjee1870161803-47157All students were found to be in good mental health20Prof. Barnima Ghosal18701618048-62158All students were found to be in good mental health21QProf. Barnali Dutta Roy18701618078-93168All students were found to be in good mental health23Prof. Soham Mukherjee18701618078-93166All students were found to be in good mental health		13	ECE	Prof. Kakali Ghosh	18700318011-25	15	8	All students were found to be in good mental health
InstructionMr. Biswajit Mandal18700318041-55I57All students were found to be in good mental health16Ms. Madhurima Dutta18700318056-68137All students were found to be in good mental health17Prof. Sanjukta18700318069-83158All students were found to be in good mental health18E.EProf. Sayantika Bose18701618017-32167All students were found to be in good mental health19Ms. Piyali Mukherjee18701618033-47157All students were found to be in good mental health20Prof. Barnima Ghosal18701618048-62158All students were found to be in good mental health21Ms. Jayeeta Das18701618063-77157All students were found to be in good mental health22Prof. Barnali Dutta18701618078-93168All students were found to be in good mental health23Prof. Soham18701618094-109166All students were found to be in good mental health		14		Prof. Partha Pratim Chakrabarty	18700318026-40	15	9	All students were found to be in good mental health
16Ms. Madhurima Dutta Roy18700318056-68137All students were found to be in good mental health17Prof. Sanjukta Chakraborty18700318069-83158All students were found to be in good mental health18EEProf. Sayantika Bose Chakraborty18701618017-32167All students were found to be in good mental health19Ms. Piyali Mukherjee18701618033-47157All students were found to 		15		Mr. Biswajit Mandal	18700318041-55	15	7	All students were found to be in good mental health
17Prof. Sanjukta Chakraborty18700318069-83158All students were found to be in good mental health18EEProf. Sayantika Bose Chakraborty18701618017-32167All students were found to be in good mental health19Ms. Piyali Mukherjee18701618033-47157All students were found to be in good mental health20Prof. Barnima Ghosal18701618048-62158All students were found to be in good mental health21Ms. Jayeeta Das18701618063-77157All students were found to be in good mental health22Prof. Barnali Dutta Roy18701618078-93168All students were found to be in good mental health23Prof. Soham Mukherjee18701618094-109166All students were found to be in good mental health		16		Ms. Madhurima Dutta Roy	18700318056-68	13	7	All students were found to be in good mental health
18EEProf. Sayantika Bose Chakraborty18701618017-32167All students were found to be in good mental health19Ms. Piyali Mukherjee18701618033-47157All students were found to be in good mental health20Prof. Barnima Ghosal18701618048-62158All students were found to 		17		Prof. Sanjukta Chakraborty	18700318069-83	15	8	All students were found to be in good mental health
19Ms. Piyali Mukherjee18701618033-47157All students were found to be in good mental health20Prof. Barnima Ghosal18701618048-62158All students were found to be in good mental health21Ms. Jayeeta Das18701618063-77157All students were found to be in good mental health22Prof. Barnali Dutta 		18	EE	Prof. Sayantika Bose Chakraborty	18701618017-32	16	7	All students were found to be in good mental health
20Prof. Barnima Ghosal18701618048-62158All students were found to be in good mental health21Ms. Jayeeta Das18701618063-77157All students were found to be in good mental health22Prof. Barnali Dutta Roy18701618078-93168All students were found to 		19		Ms. Piyali Mukherjee	18701618033-47	15	7	All students were found to be in good mental health
21Ms. Jayeeta Das18701618063-77157All students were found to be in good mental health22Prof. Barnali Dutta Roy18701618078-93168All students were found to be in good mental health23Prof. Soham Mukherjee18701618094-109166All students were found to be in good mental health		20		Prof. Barnima Ghosal	18701618048-62	15	8	All students were found to be in good mental health
22Prof. Barnali Dutta Roy18701618078-93168All students were found to be in good mental health23Prof. Soham Mukherjee18701618094-109166All students were found to be in good mental health		21		Ms. Jayeeta Das	18701618063-77	15	7	All students were found to be in good mental health
23Prof. Soham Mukherjee18701618094-109166All students were found to be in good mental health		22		Prof. Barnali Dutta Roy	18701618078-93	16	8	All students were found to be in good mental health
		23		Prof. Soham Mukherjee	18701618094-109	16	6	All students were found to be in good mental health

24	IT	Prof. Averi Banerjee	18700218002-15	14	9	All students were found to be in good mental health
25		Mr. Koushik Bhukta	18700218016-29	14	7	All students were found to be in good mental health
26		Ms. Sayantani Ghosh	18700218030-43	14	7	All students were found to be in good mental health
27		Prof. Bablu Maity	18700218044-55	12	6	All students were found to be in good mental health
28	ME	Prof. Anindita Ray	18700718020-32	13	9	All students were found to be in good mental health
29		Mr. Biswadeep Banerjee	18700718033-44	12	7	All students were found to be in good mental health
30		Ms. Jayeesha Chakraborty	18700718045-56	12	7	All students were found to be in good mental health
31		Prof. Ranjeeni Basu	18700718057-69	13	8	All students were found to be in good mental health

### M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

S.No	Name of the Faculty Member	Cell/ Committee/ Club
------	-------------------------------	-----------------------

1.	Ms. TAPOSI CHATTERJEE	1) Member Antiragging Squad, 2) Member Sports Committee, 3) Member NSS unit			
2.	Dr. PARTHA PRATIM CHAKRABARTY	1) Member Antiragging Squad 4) Member BSH Academic Committee 5)Member IPR cell 6) Member IIC cell, 7) Member BSH Academic Committee			
3.	Ms. BARNALI DUTTA ROY	1) Member of Anti-ragging committee 2. Member BSH Academic Committee			
5.	Ms. BARNIMA GHOSAL	1) Member Hridmajhare, The Club of Performing Arts of TINT			
6.	Mr. SAYANTAN MAJUMDER	1) Member of Routine Committee.			
7.	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 cell			
11.	Mr. AMALENDU SINGHA MAHAPATRA	1) Convenor Sport Committee 2. Member Anti Ragging Committee 3. Member Exam Cell 4. Convenor NSS unit 5. Member BSH Academic Committee 6. Member of Cultural Committee			
12.	Mrs. PAPIYA DEBNATH	1) Member IQAC Cell 2) Member Anti Ragging Committee 3) Convenor IPR Cell 4) Member IIC cell, 5) Member R& D cell 6) Member TINT Photography Club, 7) Convenor NSS unit 8) Member Departmental Academic Committee			
13.	Dr. KAKALI GHOSH	Member Anti Ragging Committee 2) Convenor Hridmajhare, The Club of Performing Arts of TINT 3)Member NSS Unit 4) Member BSH Academic Committee 5) Member Entrepreneur Cell			
15.	Dr. MALA MITRA	1) Advisory committee member Hridmajhare, The Club of Performing Arts of TINT 2) Advisory committee member TINT Photography Club, 3) Member BSH Academic Committee 4) Member Exam Cell, 5) Convenor Antiragging Committee			
16.	Dr. ARPITA CHATTOPADHYAY	1) Member Anti Ragging Committee 2) Member BSH Academic Committee			

21.	Mrs. AVERI BANERJEE	<ol> <li>Member BSH Academic Committee</li> <li>Member of TINT Exam Cell</li> <li>Chairperson of Anti-Ragging Squad</li> <li>Member of TINT Photography Club</li> </ol>			
22.	Ms. ANINDITA RAY	Convenor TINT Photography Club 2) Member Antiragging Committee 3) Member Internal Compliance Committee 4) Member Department Academic Committee			
23.	Dr. SUMMAULI PYNE	Member Anti Ragging Committee			
24.	Ms. RANJINEE BASU	Member TINT Photography Club			
32.	Dr. SAYANTIKA BOSE CHAKRABORTY	1) Convenor Internal Complaint Committee 2. Member Anti Ragging Committee 3. Academic Coordinator 4. Member Grievance Redressal Committee 5. Member National Innovation and Startup Policy Committee 6. Member NIRF & ARIIA Committee			
33.	Dr. ANWESHA DUTTA AIN	1) Member IQAC 2) Co-coordinator Disciplinary Committee 3) Departmental representative Routine Committee 4) Member NAAC-NBA core committee 5) Convenor Departmental Academic committee 6) Co-convenor Hridmajahre- performing art club			
	MR. SOHAM MUKHERJEE	Involved in academic planning and research initiatives			
	MR. SUBIR KUMAR LAHIRI	Involved in academic planning and Holistic education			
	MS. MADHURIMA DUTTA ROY	Involved in research initiatives and Holistic education			

MS. JAYEETA DAS	Involved in holistic education
MR. KOUSHIK BHUKTA	Involved in research initiatives
MS. JAYEESHA CHAKRABORTY	Involved in academic planning and research initiatives
MS. MILI ROY	Involved in entrepreneurship development
MS. SATARUPA DEY	Involve in research initiatives
MR. DIBYENDU SASMAL	Involved in entrepreneurship development
MR. BISWAJIT MANDAL	Involved in holistic education
MS. PIYALI MUKHERJEE	Involved in entrepreneurship development
MS. SAYANTANI GHOSH	Involved in academic planning and research initiatives

MR. BABLU MAITY	Involved in entrepreneurship development and Student projects
MR. BISWADEEP BANERJEE	Involved in Entrepreneurship development and Student projects

# 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	0	0	0	0
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(1)	FDP offered by NPTEL- AICTE on Introduction to Abstract and Linear Algebra	2 months	National	
Seminar				

Workshop(2)	One day workshop on " Environmental Challenges at present issues of Concerns	1 day	National	
	Python Workshop for Teachers and Research scholars organised by IIT BOMBAYX	1 day	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/Stat e/University/Inter College/ Intra College
None	None	None	None	None	None

### Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION:NA

# **R. NO. OF STUDENTS PLACED:NA**

#### S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Dr. Mala Mitra	HOD, BSH
2	Prof. Kakali Ghosh	Associate Professor
3	Prof. Sayantika Bose Chakraborty	Associate Professor
4	Prof. Amalendu Singha Mahapatra	Assistant Professor
5	Dr. Arpita Chattopadhyay	Assistant Professor
6	Prof. Averi Banerjee	Assistant Professor
7	Prof. Papiya Debnath	Associate Professor
8	Prof. Partha Pratim Chakrabarty	Assistant Professor

9	Prof. Barnali Dutta Roy	Assistant Professor
10	Prof. Anindita Ray	Assistant Professor
11	Prof. Anwesha Dutta Ain	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.	JOURNAL		BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	1	0	1	0	0	2
Student- Faculty	0	0	0	0	0	0

### V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	Na
NO OF PROJECT GROUPS	0
NO OF PROJECT PROGRESS REPORTS SUBMITTED	0

### W.DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS
NA	NA	NA	NA

#### X. DETAILS OF IPR

Sl. No.	Patent	Copyright	<b>Details of IPR</b>	<b>Faculty involved</b>	Student involved
NA	NA	NA	NA	NA	NA

### 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

Mentors monitor the attendance and collect the attendance from all courses

taught to the students and keep track accordingly.

Mentors keep the students well informed about everything that might be of

concern to him/her.

The students are encouraged to discuss their ideas, try new techniques and

expand their skills.

Mentors also encourage students to participate in different academic, cocurricular and extracurricular activities.

Support to Training and Placement cell: The Department organizes classes in English language especially targeted at 5 th, 6th and 7th semester students and preparing them for facing the campus recruitment drives. Beyond-the-curriculum Classes on English Communication are also conducted in the 1st and 2nd years. Training is imparted on:

Communication skills 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 issues related to discipline or performance.

### 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.	Data Analysis, Visualization And Scientific Computation With Matlab	30 Hrs.	147	140	
2.	Computer Fundamentals, Installations and Maintenance	30 Hrs.	459	422	
3.	Domestic and Industrial Wiring- Design, Estimation & Installation	30 Hrs.	139	129	
4.	IoT with Raspberry Pi	30 Hrs.	169	158	
5.	Linux System Administration	30 Hrs.	184	174	
6.	Programming with Python	30 Hrs.	246	223	

7.	Remote sensing & GIS	30 Hrs.	113	107	
8.	Statistical Analysis using Python	30 Hrs.	276	259	
9.	Training on Ansys	30 Hrs.	133	121	

Name of the Course	Course Timing	Course Coordinator
Employability Enhancement Program	02.07.2019 - 12.07.2019	Prof. Sayantika Bose Chakraborty
Statistical Analysis using Python	02.01.2019 - 12.01.2019	Prof. Papiya Debnath

### AA. SWOC ANALYSIS:

SWOC	ANALYSIS		
	<ol> <li>Possibility of innovative ideas through collaboration across a wide range of disciplines</li> <li>Student-friendly environment with young, motivated and energetic faculty members and staff</li> </ol>		
STRENGTH:	<ol> <li>Interaction with every single student of TINT through classes in all streams</li> <li>Qualified faculty members with strong academic careers pursued from institutions of repute.</li> </ol>		
	1. Lack of organized execution of structured Bridge courses		
	2. Alarming rate of failure of students in Physics and Mathematics		
WEAKNESS:	3. Lack of coordination with other Departments of the College		
	4. Shortfall of human resource		

<b>OPPORTUNITIES:</b>	<ol> <li>Interdisciplinary growth across departments</li> <li>Expansion in the effectiveness of marketing/publicity of the college</li> </ol>
	3. Increased research-funding and the boost given by AICTE to research & development
	1. Declining interest of students in studying basic science and humanities subjects
	2. Infrastructural facilities in the laboratories and classrooms
CHALLENGES:	3. Frequent discontinuity of substantial number of faculty members
	4. Optimum utilization of human resources available
Comments of the auditor:

1) Lab infrastructure to be updated 2) Require research initiative more in the department.

Name & Signature of the HoD Name & Signature of the IQAC Coordinator Name and Signatures of Internal Auditors 1. Sayantika bose Chakeaborty Stole - 20 Qui 7. 2. 1 grandi 2. Arpita Chuttopadlugay C Mat 000/02/2017

#### Techno International New Town Academic Audit Evaluation Report

# Assessment Year (3 yrs.): 2016 - 17, 2017 - 18, 2018 - 19

Clause No.	Score in 5 poi		
	Internal Auditor	External Auditor	Remarks
В	5	5	
С	5	5	And the second second
D	5	4	
E	5	4	
F	5	5	
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X	2	0	The second second
Y	4	4	COLUMN STREET
Z	4	4	
AA	4	3.5	
TOTAL	97.5	86'5	المراجع المحادث

	Name	Designation	Affiliation	Signature
External Auditor	Pull Utyal Grappake	Profe Buy	MSIT	llaman lla
Internal Auditor	6-BClick Palgert	Asst that	TINT	- To proposed any ay
Internal Auditor	Arpila Chillopedury	Asst. Prof.	TINT	A CLARAN
IQAC Coordinator	Dr. Tapas kumar Nand	Asso- Prof.	TINT	In chatpaday
HoD	Kakali hhosh	Asst Prod.	TINT	
Director	Dr. R. J. G. Build M	Director	TINT	- Bi
				- Ogman

Comments of the auditor:

") Improvement of Departmental Research initiatives 2) Some improvement of studient project mentoring syllin. 3) NO IPR, at least one or two IPR is requiring.

life not pack your y Prof. (Dr.) Utpal Gangopadhyay Professor

Meghnad Saha Institute of Technology Nazirabad, Kolkata - 700150

N	ame an	d Signatur	es of Internal Auditors
1.	Joh,	Dez: So	yardika bree Chakeaboorg
2.	Dr	Arpita	( hattopadhyay
	1.	Chattop.	adhyay

Name & Signature of the IQAC Coordinator 20. Tapas, Kumar Nanki

Name & Signature of the HoD

MALA MITRA Mala Miton



# EXTERNAL ACADEMIC & ADMINISTRATIVE AUDIT AY – 2018-19

# DEPARTMENT OF CIVIL ENGINEERING



**TECHNO INTERNATIONAL NEW TOWN** 

#### DATE: 11<sup>Th</sup> February 2019

#### A. DEPARTMENT DETAILS

Name of Department:	CIVIL ENGINEERING							
Name of Programme:	<b>B.Tech</b> in CIVIL ENGINEERING							
Academic year	2018-19							
Student Intake	120							
No. of enrolled student	92							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered			6	5	5	6	5	3
No. of Practical classes offered			4	5	4	4	5	2

#### **B. FACULTY/STAFF STRENGTH: 16**

## C. STUDENT FACULTY RATIO: 22:1

#### **D. NO. OF LABORATORIES:** 9

## **E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:**

Sl. No.	Lab Name	No. of accommodation	Equipment	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	35	Do	Do	Do
	Laboratory				
5	Surveying & Geomatics Laboratory	35	Do	Do	Do
6	Geology Laboratory	35	Do	Do	Do
7	Solid Mechanics Laboratory	35	Do	Do	Do
8	Fluid Mechanics Laboratory	35	Do	Do	Do
9	Computer Aided Drawing Laboratory	35	Do	Do	Do

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

## **G. FACULTY DETAILS**

## 2018-2019:

	Name of the Faculty	Highest	Experience	Roles &	Designation	Date of
S.No	Member	Qualification With	(Years)	Responsibilities		Joining
		Specialization				
1			Total experience	Teaching	Professor	2/11/2015
	Sankar Chakraborty	MCE Geotechnical Engineering	40 years			
2	Siddhartha Mukherjee	MCE (Geotechnical Engineering)	8 years industry 20 years academics	Teaching Head of the department(2018-2020) Mentor of Department Member of DAC	Assistant Professor	15/7/2015
3	Somnath Majumder	ME, (Structural Engineering)	12 Years	Teaching Member of Exam Cell Convenor of DAC	Assistant Professor	1/4/2014
4	Rajib Majumder	M.Tech (Water Resources Engineering)	13 Years	Teaching Member of Placement Cell	Assistant Professor	9/7/2013
5.	Sanjoy Das Neogi	MCE (Structural Engineering)				2/12/2017
6	Sumit Narayan Bose	M.Tech (Transportation Engineering)	7 years	Teaching Member of Anti-ragging committee.	Assistant Professor	15/07/2014

7	Alinda Dey	M.Tech, (Structural Engineering)	7 years	Teaching	Assistant Professor	15/07/2015
8	Dibyendu Shil	M.Tech, (Structural Engineering)	5 years	Teaching	Assistant Professor	17/07/2017
9	Ranajit Basu	M.Tech (Environmental Engineering)	7 years	Teaching	Assistant Professor	24/07/2017
10	Mousumi Kundu	M.Tech (Geotechnical Engineering)	7 years	Teaching	Assistant Professor	13/04/2017
11	Jenifar Begam	M.Tech (Water Resources Engineering)	4 years	Teaching Member of Admission cell	Assistant Professor	10/07/2017
12	Krishanu Bhaumik	M.Tech, (Structural Engineering)	2 years	Teaching	Assistant Professor	25/1/2018
13	Sourav Dutta	M.Tech, (Structural Engineering)	3 years	Teaching	Assistant Professor	3/1/2019
14	Sourav Biswas	M.Tech, (Structural Engineering)	3 years	Teaching	Assistant Professor	18/1/2019
15	Srijita Dey	M.Tech (Soil Mechanics)	2 years	Teaching	Assistant Professor	25/1/2018
16	Moudipta Banerjee	ME (Environmental Engg.)	2 years	Teaching	Assistant Professor	1/2/2019

#### 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	2018-19	6	5	4
VII	2018-19	9	6	4
VIII	2018-19	7	5	4

## I. COURSE DELIVERY:

Vear/Semest	Sossion	From Core Dept			Fro	om other Dep	t	To other Dept			
er (Theory Labs)	56551011	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits	
III	2018-19.	8	6	17	7	4	12	NA	NA	NA	
IV	2018-19.	7	6	6 17 7 4		9	NA	NA	NA		
V	2018-19.	12	8	22	2	1	3	NA	NA	NA	
VI	2018-19.	12	9	23	4	1	2	NA	NA	NA	
VII	2018-19.	10	9	22	5	2	5	NA	NA	NA	
VIII	2018-19.	8	4	16	2	1	2	NA	NA	NA	

#### J. WORKLOAD DETAILS:

#### 2018-19

S. No	Name of the faculty member	Name(s) of the Theory/Lab	No. Cou	No. of Courses		No. of Periods		Workload	Completion Status
			Т	Р	Т	Р			
1.	Sankar Chakraborty	CE 501, CE 591, CE 792, CE 783, CE 403, CE 493, CE 881	2	5	4	26	23	30	Completed
2.	Siddhartha Mukherjee	CE 501, CE 591, CE 792, CE 403, CE 783, CE 881, CE 493,	2	5	8	23	23	31	Completed
3.	Somnath Majumder	CE 301, CE 391, CE 593, CE 783, CE 402, CE 693, CE 881	2	5	10	44	22	54	Completed
4	Rajib Majumder	CE 302, CE392, CE702, CE 704B, CE783, CE881	3	3	12	37	20	49	Completed
5	Sumit Narayan Bose	CE503, CE 592, CE 594, CE 703C, CE 601, CE 691, CE 802D, CE 783, CE 881	4	5	18	29	27	47	Completed
6	Alinda Dey	CE 301, CE 393, CE 503, CE 593, CE 592, CE 692, CE 681, CE 693, CE 891, CE 783, CE 881	2	9	6	42	33	48	Completed
7	Dibyendu Shil	CE301, CE 391, CE 593, CE 592, CE 402, CE 604B, CE 692, CE 693, CE 783, CE891, CE881	1	8	6	44	31	50	Completed
8	Ranajit Basu	CE 393, CE 504, CE 701, CE 791, CE 681, CE 801A, CE 783, CE 881	3	5	12	20	25	32	Completed
9	Mousumi Kundu	CE 303, CE 393, CE 591, CE 594, CE 792, CE 403, CE 493, CE 783. CE 881	2	7	8	44	25	52	Completed
10	Jenifar Begam	CE 594, CE 702, CE 603, CE 691, CE 783, CE 881	2	4	6	20	19	26	Completed
11	Krishanu Bhaumik	CE 302, CE 392, CE 593, CE 504, CE 704B, CE 792, CE 492, CE 401, CE 681, CE 601, CE 691, CE783, CE881	4	7	14	47	39	61	Completed
12	Sourav Dutta	CE402, CE 491, CE 604B, CE 891, CE 881	2	3	4	19	19	23	Completed
13	Sourav Biswas	CE 402, CE 492, CE 491, CE 604B, CE 891, CE 881	2	4	4	22	19	26	Completed
14	Srijita Dey	CE303, CE 593, CE 701, CE 791, CE 792, CE 491, CE 681, CE 691, CE 891, CE 783, CE 881	2	9	5	33	33	38	Completed
15	Moudipta Banerjee	CE 401, CE 693, CE 603, CE 801A, CE 783, CE 881	3	3	5	13	20	18	Completed
16	Sanjoy Das Neogi	CE 502, CE 602, CE 692, CE 783, CE 881	2	3	14	14	16	28	Completed

#### K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared			6	6	8	9	8	4	41
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 (SeniorFaculty/HOD)			6	6	8	9	8	4	41
No.of courses for which the Lesson Plans are modified after verification			2	2	0	0	1	0	0
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.Somnath Majumder (2018-2019 7th,8th sem)	(18701315001-18701315038)	35	12	
	Mr.Ranajit Basu (2018-2019, 7th,8th sem)	(18701315039-18701316015)	38	12	
	Mr. Sumit Narayan Bose (2018-2019, 7th,8th sem)	(18701315065-18701315104)	38	12	
	Mr. Rajib Majumder (2018-2019, 7th,8th sem)	(18701315105-18701316031)	29	12	
2.	Mr. Rajib Majumder&Mr. Somnath Majumder (2018-2019 5th,6th sem)	(18701316033-18701316064)	31	8	
	Mr.Alinda Dey & Mr Dibyendu Shil (2018-2019 5th,6th sem)	(18701316065-18701317024)	29	8	
	Ms. Jenifer Begam (2018-2019 5th,6th sem)	(18701316075-18701316115)	30	8	
	Ms. Mousumi Kundu (2018- 2019 5th,6th sem)	(18701316116-18701317139)	28	8	
3.	Mr.Ranajit Basu (2018-2019 3rd,4th sem)	(18701317046-18701317080)	30	12	
	Mr. Sumit Narayan Bose (2018-2019 3rd,4th sem)	(18701317081-18701318020)	30	12	
	Ms. Mousumi Kundu (2018-2019 3rd,4th sem)	(18701317095-18701317130)	30	12	
	Mr Dibyendu Shil (2018-2019 3rd,4th sem)	(18701317131- 18701318093)	28	12	

#### M. DETAILED NON-ACADEMIC RESPONSIBILITY

Sl.No.	FacultyName	Cell/Committee/Club
1	Mousumi Kundu	Art Club (Aesthetica)
2	Rajib Majumder	Literary Club (Litwits)
3	Rajib Majumder	Cine Club (TINT Talkies)
4	Sumit Narayan Bose	Photography Club
5	Jenifar Begum, Sanjoy Das Neogi	HridMajhare
6	Sumit Mishra	NSS Unit
7	Sumit Narayan Bose	Sports Committee
8	Rajib Majumder	Cultural Committee
9	Rajib Majumder, Mousumi Kundu	Anti-ragging Committee
10	Sumit Narayan Bose, Rathindranath Mukherjee	Anti-ragging Squad
11	Mousumi Kundu	Internal Complaints Committee
12	Somnath Majumder	Disciplinary Committee
13	Rajib Majumder, Sumit Narayan Bose	Placement Committee

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

	Total Number	Duration	International/National/ State/University/Inter College/Intra College	Total no of participation
ExpertTalk	-	-	-	-
FDP	-	-	-	-
Seminar / Webinar	1 (12/04/2018)	4hr	Intra College	176
Workshop	-	-	-	-
Conference	-	-	-	-

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

	Total Number	Duration	International/National /State/University/Inte rCollege/IntraCollege	Total no of participation
Expert Talk	-	-	-	-
FDP	1	One week	National	01 no of dept staff members who did FDP
Seminar	-	-	-	-
Workshop	-	-	-	-
Conference	-	-	-	-

#### P. ACHIEVEMENTS OF THE STUDENTS / FACULTY MEMBERS IN EXTRA CO-CURRICULAR ACTIVITIES (Annexure E)

Sl.No.	Event Description	Organized By	StudentName	FacultyNa me	International/National/Sta te/University/InterCol
					lege/Intra College
1	1st position in the event Powerpoint presentation Megalith, 2018	IIT Kharagpur	SoumavaBhattacharjee, Shilajit Chakraborty, Samprikta Modak, K Tirumaleswar Rao Sayan Debnath		Inter College
2	1st position in the event	IIT Kharagpur			Inter College
	Photography on steel		Arijit Das		

	structures, 2018				
3	1st position in the event Making of roller coaster in Tech Fest, 2018	Techno India university	Somnath Poddar , Deep Bhattacharjee, Subhajit Ghosh & Arka Das		Inter College
4	2nd position in the event Instridge in Megalith, 2018	IIT Kharagpur	Tanushree Das, Rahul Ghosh, Bishakha Ganguly & Nirnit Sankar Bagchi		Inter College
5	4th position in the event Rotolare in Megalith, 2018	IIT Kharagpur	Shameer Ahmed Khan, Ujjawal Kumar Mishra &Faisal Shakil		Inter College
6	2nd position in the event Power Truss in Megalith, 2018	IIT Kharagpur	Somnath Poddar, Subhajit Ghosh &Supriti Kar		Inter College
7	Poster presentation in the National Conference- ACEP-2018 on "Ground water recharge by rainwater harvesting" under the guidance of, at HIT Haldia.	HIT Haldia	Supratik Dhawa, Supratik Patra, Suprit Bhattacharya, Swagata Sana, Sweta Sarkar, Timir Chandra Mahato	Prof. Jenifar Begam	Inter College

## **Q. NO.OF STUDENTS OPTED FOR HIGHER EDUCATION:**

Year	Students opted for higher education	
2018-19	3	

#### **R. NO.OF STUDENTS PLACED:**

Year	Students placed
2018-19	4

#### **S. DEPT.ACADEMIC COMMITTEE(DAC)**

Sl.No.	Name	Designation
1	Sankar Chakraborty	Professor
2	Siddhartha Mukherjee	Assistant Professor
3	Sanjoy Das Neogi	Assistant Professor
4	Somnath Majumder	Assistant Professor
5	Rajib Majumder	Assistant Professor
6	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)

- 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.	JOURNAL		BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	7					
<b>Student-Faculty</b>						

#### V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION	Students may choose their
PROCESS	Project guide according to
	their merit list
Year	2018-2019
NO OF PROJECT GROUPS	18
NO OF PROJECT	18
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	<b>Details of IPR</b>	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 outreach activities and technical competition.

#### Z. VALUE ADDED COURSES OFFERED

S. No	Name Of The Value Added Courses(with30 or more contact hours)offered	Batch	Year	Duration Of Course (Hours)	Number of students enrolled in the year	Number of Students completing the course in the year	Remarks
1	Remote sensing & GIS	2nd Year		30	113	107	
2	Employability Enhancement Program	4th Year		30	140	134	
3	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	3rd Year	2018-19	30	124	117	
4	Programming for complex problem solving using pseudocode	3rd Year		30	121	114	
5	Programming with Python	3rd Year		30	119	115	

#### AA. SWOC ANALYSIS:

SWOC	ANALYSIS
STRENGTH:	<ol> <li>Faculty of all specializations are present</li> <li>Good academic ambience results to top rankers in the University</li> <li>Excellent laboratory infrastructural facility.</li> </ol>
WEAKNESS:	<ol> <li>Limited industry-academia interaction</li> <li>Less amount of projects</li> </ol>
<b>OPPORTUNITIES:</b>	<ol> <li>Scope of revenue generation through consultancy to industry</li> <li>Scope of employment in both core and computational branches</li> </ol>
CHALLENGES:	<ol> <li>Decline in admission in the core engineering sector.</li> <li>To encourage students towards the computational application of core engineering to enhance the employability quotient</li> </ol>

# Techno International New Town Academic Audit Evaluation Report

#### Assesment Year: 2018 - 2019

N	Score in 5 poir	Remarks	
lause No.	Internal Auditor	External Auditor	
В	5.0	5	
С	50	5	
D	4.5	4	
E	4.5	4	
F	4.5	4	
G	5.0	5	
Н	5:0	5	
1	4.5	4	
J	5.0	5	
К	4.5	4	
L	4.5	4.5	
М	5.0	5	
N	4.0	4	
0	4.0	4	
Р	4.0	315	
Q	4.0	3.5	
R	4.0	3.5	
S	5.0	5	
Т	4.5	4.5	
U	3.5	3.5	
V	4.0	4	
W	0.0	0	
Х	0.0	0	
Y	5.0	5	
Z	5.0	5	
AA	5.0	5	
TOTAL	109	105	

DR. DIPANKAR CHAKRAVOF BROFESSOR & FORMER HEAD WIL ENGINEERING DE MULENGINEERING DEPARTMEI MOAVPUR UNVERSITY

	Name	Designation	Affiliation	Signature	DMEDAL
<b>External Auditor</b>	Chakravorty	Ladavnur Universit	Jadavpur University	MAIL : Addipankar	0993143 99001.000
Internal Auditor	Prof. Somnoth	Assistant Professos	Techno Internationa	Shout	_
Internal Auditor	Prof. Rafil	Assistant Professo	Techno International	du	
IQAC Coordinator	Dy Tapas Kr.	Professon	Techno International	-247 Chi	
HoD	Prof Siddhartha	Appistant	Techno International	J. Hukhoyn	
Director	Dr. Radha Tamal	Director	Techno International	Boon amu	
				N	

Comments of the auditor:

The different canpoint exhibited and presented relates to Academic andit are found tobe in order. Apanh Chalmanty

PROF. DR. DIPANKAR CHAKRAVORTY ENGINEERING DIVISION SSOR & FORMER HEA CIVIL ENGINEERING DEPARTMENT CIVIL ENGINEERING DEPARTMENT JADAVPUR UNIVERSITY B.E.(J.U.) GOLD MEDALIST M TECH (IITKGP) GOLD MEDALIST PH.D.(IITKGP) (OFF) 033-2457 2589 (M) 9830188502 & 9433993143 EMAIL Prof. download Company EMAIL Prof.dipankar@gmall.com

Name and Signature of Internal Auditors

Name & Signature of the IOAC Coordinator

Name & signature of The HOD

1. Brof. Som noth Majumder

Dr. Tapas, Kymar Wandi - K. Ut

Prof. Siddhalta Mukhergee

I kukhenp

HOD-Civil Dupt. Techno International New Yown Formerly Knowledia Fectino India College of Technology Block-DG, AT-1, New Town, Rolainal, Kol-156

2. Prof-Rajib Magumeer. Roit wojunder

## **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 2018-19**

# **Department of Computer Science and Engineering**

### A. DEPARTMENT DETAILS

Name of Department:	CSE									
Name of Programme:	B. Tech									
Academic year	2018-19									
Student Intake	90 + 90 + 90 + 90 = 360									
No. of enrolled student			I Adi	Fresh missior	Lat Adm	eral ission	Strean Chang	n je	Total	
	1st Y	ear		84		-	-		84	
	2nd Y	lear			1	3	02		98	
	3rd Y	ear							92	
	4th Y	'ear							94	
	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: 15**

## C. STUDENT FACULTY RATIO: 19:1

## D. NO. OF LABORATORIES: 8 E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

Sl. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	Programming LAB1	30	Computer	HCL ,P4, 2.66 GHz, 533 FSB, 915 GV CHIPSET , 2GB MEMORY, 40 GB HDD, 15" HCL CRT MONITOR	2011
				LENOVO,DUAL CORE , 1GB MEMORY , 160 GB HDD, 15'' LCD LENOVO MONITOR WSG37555W7S-0048,C2D E7500 2.9G 1066F 3MB 755P, 2 GB DDR2 800 MEMORY, 320 GB SATA2 7200RPM, DVD WRITER, TFT 18.5 WIDE MONITOR	2019 upgraded to 8GB RAM
2	DBMS and Web Technology LAB	28		X9W00AV-HP 280 GT MT,CORE I5,-6500 3.2G,1TB 7200 RPM SATA 6G 3.5HDD, 18.5 LCD MONITOR	2013
				HWHDSK -DESKTOP-ACER, UD.VD9SI.732, VERITON MT H 61, CORE I3 32220, 4GB DDR3 RAM, 500GB HDD, HWACC-MONITOR- ACCER	2019 upgraded to 8GB RAM
				HP DESKTOP 202-F9A00AV, CORE I3 4160 3.6 GHz, 4GB RAM, 1TB HDD, HP 18.5 LED MONITOR-G9W86AA	

3	Network Lab	28	WSG37555W7S-0048,C2D E7500 2.9G 1066F 3MB 755P, 2 GB DDR2 800 MEMORY, 320 GB SATA2 7200RPM, DVD WRITER, TFT 18.5 WIDE MONITOR	2012
			LENOVO, DUAL CORE E5700 3GHz , 2GB MEMORY,500 GB HDD, DVD WRITER, 18.5 LCD LENOVO MONITOR	
			X9W00AV-HP 280 GT MT,CORE I5,-6500 3.2G,1TB 7200 RPM SATA 6G 3.5HDD, 18.5 LCD MONITOR	2019
			HP DESKTOP 202-F9A00AV, CORE I3 4160 3.6 GHz, 4GB RAM, 1TB HDD, HP 18.5 LED MONITOR-G9W86AA	upgraded to 8GB RAM
4	Programming LAB2	29	HWHDSK -DESKTOP-ACER, UD.VD9SI.732, VERITON MT H 61, CORE I3 3220, 4GB DDR3 RAM, 500GB HDD, HWACC-MONITOR- ACCER	2011
			LENOVO, DUAL CORE E5700 3GHz , 2GB MEMORY,500 GB HDD, DVD WRITER, 18.5 LCD LENOVO MONITOR	2019 upgraded to 8GB RAM
			LENOVO, INTEL PENTIUM CPU, G630 2.70 GHz, 2GB MEMORY , 250 GB HDD, DVD Writer, 18.5 LCD LENOVO MONITOR	
5	Project Lab-1	29	HWHDSK -DESKTOP-ACER,	2013

			UD.VD9SI.732, VERITON MT H 61, CORE I3 3220, 4GB DDR3 RAM, 500GB HDD, HWACC-MONITOR- ACCER	2019 upgraded to 8GB RAM
6	Project and Research Lab- 2	30	X9W00AV-HP 280 GT MT,CORE I5,-6500 3.2G,1TB 7200 RPM SATA 6G 3.5HDD, 18.5 LCD MONITOR LENOVO, DUAL CORE E5700 3GHz , 2GDB MEMORY,500 GB HDD, DVD WRITER, 18.5 LCD LENOVO MONITOR HWHDSK -DESKTOP-ACER, UD.VD9SI.732, VERITON MT H 61, CORE I3 32220, 4GB DDR3 RAM, 500GB HDD, HWACC-MONITOR- ACCER	2017
7	Operating System	29	WSG37555W7S-0048,C2D E7500 2.9G 1066F 3MB 755P, 2 GB DDR2 800 MEMORY, 320 GB SATA2 7200RPM, DVD WRITER, TFT 18.5 WIDE MONITOR LENOVO, DUAL CORE E5700 3GHz , 2GB MEMORY,500 GB HDD, DVD WRITER, 18.5 LCD LENOVO MONITOR	2017
8	Hardware Lab		Trainer Kit 04, 8085/8086 kit 4 each, 8255 kit 4	2017

#### F. DETAILS OF ICT TOOLS:

- Moodle based LMS Server is installed in our campus to facilitate grading, online feedback, online quiz, and online attendance.
  For viewing student performance, the staff, faculty members and the students themselves have been provided with login id, through which they can access

the LMS Server within and outside the campus as well.

• The campus has a 48 Mbps, 24-hour high-speed internet connectivity.

### G. FACULTY DETAILS

S.No	Name of the Faculty Member	Highest Qualification With Specialization	Experience (Years)	Roles & Responsibilities	Designatio n	Date of Joining (MM/DD/Y YYY)
1.	NIZAMUDDIN LASKAR	M.TECH, PhD enrolled	16 Years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	1/11/2007
2.	AMAL KUMAR SAHA	M.Tech	9 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	8/1/2018
3.	SWAGATA PAUL	ME, PhD registered	16 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	1/1/2011
4.	NABANITA DAS	ME, PhD Enrolled	12 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	2/10/2006
5.	ARGHYA KUSUM DAS	M.Tech.	12 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	1/10/2007
6.	SAYANTANI DE	M.Tech	9 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	8/9/2010
7.	BIKASH SADHUKHAN	M.Tech	12 Years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	7/23/2007
8.	DEBRAJ CHATTERJEE	M.TECH	5 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	1/29/2014
9.	NILANJANA ADHIKARI	M.TECH	11 Years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	2/3/2016
10.	TANUSREE CHATTERJEE	M.TECH	5 Years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	8/1/2017

11.	NAIRITA SARKAR	ME	9 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	7/23/2014
12.	SOMENATH MUKHERJEE	ME, PhD registered	6 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	8/18/2017
13.	TUHINSUBHRA SUBHRA SANPUI	ME, PhD registered	5 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	1/20/2018
14.	DEBRANJAN SARKAR	ME, PhD	19 years	Teaching, Mentoring, Research, Administration	PROFESSOR	9/1/2016
15.	SANANDA MITRA	ME	12 years	Teaching, Mentoring, Research, Administration	ASST PROFESSOR	3/15/2011

#### 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	<b>4</b> CS504A Circuit Theory & Network (ECE) CS504B Data Communication (ECE) CS504C Digital Signal Processing (ECE) CS504D Object Oriented Programming (IT)	2 CS504B Data Communication (ECE) CS504D Object Oriented Programming (IT)	1 CS504D Object Oriented Programming
6	<b>3</b> CS604A Information Theory & Coding CS604B Computer Graphics CS604C ERP	<b>2</b> CS604B Computer Graphics CS604C ERP	1 CS604B Computer Graphics
6	<b>3</b> CS605A Operation Research (M) CS605B Human Resource Management (HSS) CS605C Multimedia Technology (IT)	<b>2</b> CS605A Operation Research (M) CS605C Multimedia Technology (IT)	1 CS605A Operation Research (M)
7	4 CS703A. Pattern Recognition CS703B. Soft Computing	<b>2</b> CS703C. Artificial Intelligence	<b>1</b> CS703C. Artificial Intelligence

	CS703C. Artificial Intelligence CS703D. Image Processing	CS703D. Image Processing	
7	5 CS704A. Distributed Operating System CS704B. Cloud Computing CS704C. Data Warehousing and Data Mining CS704D. Sensor Networks CS704E. Mobile Computing	<b>3</b> CS704B. Cloud Computing CS704C. Data Warehousing and Data Mining CS704E. Mobile Computing	<b>1</b> CS704B. Cloud Computing
7	4 CS705A. Internet Technology (IT) CS705B. Microelectronics & VLSI Design (ECE) CS705C. Control System (EE) CS705D. Modelling & Simulation (M)	<b>2</b> CS705A. Internet Technology (IT) CS705D. Modelling & Simulation (M)	<b>1</b> CS705A. Internet Technology (IT)
8	<b>2</b> HU801A Organisational Behaviour HU801B Project Management	<b>2</b> HU801A Organisational Behaviour HU801B Project Management	1 HU801B Project Management
8	5 CS801A. Advanced Computer Architecture CS801B. Parallel Computing CS801C. Natural Language Processing CS801D. Cryptography & Network Security CS801E. Business Analytics	<b>3</b> CS801A. Advanced Computer Architecture CS801C. Natural Language Processing CS801D. Cryptography & Network Security	1 CS801D. Cryptography & Network Security
8	6 CS802A. Technology Management (HSS) CS802B. Cyber Law & Security Policy (HSS) CS802C. Optical Networking (ECE) CS802D. Low Power Circuits & Systems (ECE) CS802E. E-Commerce (IT) CS802F. Robotics (EE & ME)	<b>3</b> CS802B. Cyber Law & Security Policy (HSS) CS802E. E-Commerce (IT) CS802F. Robotics (EE & ME)	1 CS802E. E-Commerce (IT)

#### I. COURSE DELIVERY:

Year/Semester	F	From Core Dept From Other Dept					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	
Ι	2X0	2X0	0	2X9	2X6	17.5	0	0	0	
II	2X3	2X2	2X5	2X9	2X6	15.5	9	2	5	
III	2X9	2X6	19	2X5	2X4	10	4	2	3	
IV	2X9	2X6	17	2X5	2X4	9	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	0	0	0	
VIII	2X2	2X2	9	2X2	2X2	6	0	0	0	

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:

ODD								
SI N	Name of the faculty member	Name(s) of the Theory/Lab		. of jects	No.	of Periods	Total Work	
			Т	Р	Т	Р	Load	
1	Dr. Debranjan Sarkar	Computer Organisation [T-CS303, L-CS393], Microprocessors & Microcontrollers [T-CS-502, L-CS592]	2	2	4	6	10	
2	Ms. Sananda Mitra	Programming Practices using C++ [L-CS593], Software Engg. Lab [L-CS791], Mobile Computing [T-CS-704E]	1	2	3	9	12	
3	Dr. Somenath Mukherjee	Design & Analysis of Algorithm [L-CS591], Microprocessors & /icrocontrollers [T-CS-502], Software Engg. Lab [L-CS791]		2	2	9	11	
4	Ms. Nairita Sarkar	Artificial Intelligence [L-CS793C], Artificial Intelligence [T- CS703C], Design & Analysis of Algorithm [L-CS591],	1	2	3	12	15	
5	Mrs. Tanusree Chatterjee	Object Oriented Programming (IT) [T-CS504D], Programming Practices using C++ [L-CS593], Software Engg. Lab [L-CS791], Software Engg. [T-CS701]		2	6	9	15	
6	Ms. Nilanjana Adhikari	Computer Organisation [T-CS303, L-CS393]	1	1	4	12	16	
7	Nizamuddin Laskar	Design & Analysis of Algorithm [T-CS 501, L-CS591], Artificial Intelligence [L-CS793C]	1	2	4	12	16	
8	Mr. Tuhin Subhra Sanpui	Training & Placement (Pseudocode) [TP-P-501], Design & Analysis of Algorithm [L-CS591], Object Oriented Programming (IT) [L- CS594D],Internet Technology (IT) [T-CS705A]	2	2	5	9	14	

9	Mr. Swagata paul	Data Structure & Algorithm [T-CS302], Internet Technology (IT) [L-CS795A]	1	1	4	9	13
10	Mr. Bikash Chandra Sadhukhan	Computer Organisation [T-CS303], Software Engg. Lab [L-CS791], Mobile Computing [T-CS704E], Internet Technology (IT) [T- CS705A]	3	1	8	3	11
11	Ms. Nabanita Das	Data Structure & Algorithm [T-CS302, L-CS392], Compiler Design [T-CS-702]	2	1	7	9	16
12	Mr. Arghya Kusum Das	Design & Analysis of Algorithm [T-CS 501, L-CS591], Artificial Intelligence [T-CS703C, L-CS793C]	2	2	7	9	16
13	Ms. Sayantani De	Data Structure & Algorithm [L-CS392], Compiler Design [T-CS-702], Software Engg. Lab [L-CS791],	1	2	3	12	15
14	Mr. Debraj Chatterjee	Software Engg. [T-CS701], Internet Technology (IT) [L-CS795A], Software Engg. Lab [L-CS791]	1	2	3	12	15
15	Mr. AMAL KUMAR SAHA	Object Oriented Programming (IT) [T-CS-504D, L-CS594D], Microprocessors & Microcontrollers [L-CS592]		2	4	9	13
		EVEN					
S1	Name of the faculty member	Name(s) of the Theory/Lab		No. of Subjects No. o		of Periods	Total Work
				Р	Т	Р	Load
1	Dr. Debranjan Sarkar	Software Tools [L-CS492], Computer Architecture [L-CS493], Data Base Management System Lab [L-CS691], Computer Graphics [T- CS-604B]		3	1	12	13
2	Ms. Sananda Mitra	Network Lab [L-CS692], Programming for Problem Solving [L- ES- CS291], Programming for Problem solving [T-ES-CS201]		2	3	13	16
3	Dr. Somenath Mukherjee	Computer Network [T-CS602], Data Base Management System [T-CS601], Data Base Management System Lab [L-CS691]	2	1	4	6	10

4	Ms. Nairita Sarkar	Software Tools [L-CS492], Computer Graphics [T-CS-604B], Programming for Problem solving [T-ES-CS201]		1	6	3	9
5	Mrs. Tanusree Chatterjee	Software Tools [L-CS492], Operating System [T-CS603], Operating System Lab [L-CS693], Programming for Problem solving [T-ES- CS201, L- ES-CS291]	2	3	4	13	17
6	Ms. Nilanjana Adhikari	Computer Architecture [L-CS493], Computer Architecture [T-CS403]	1	1	4	9	13
7	Nizamuddin Laskar	Formal Language & Automata Theory [T-CS402], Formal Language & Automata Theory lab [L-CS492], Computer Graphics [T-CS-604B]	2	1	9	3	12
8	Mr. Tuhin Subhra Sanpui	Software Tools [L-CS492], Data Base Management System Lab [L- CS691], Training & Placement (Pseudocode) [TP-P-501], Cryptography & Network Security [T-CS801D], Design Lab / Industrial problem [L-CS891], Programming for Problem solving [L- ES-CS291]		4	5	12	17
9	Mr. Swagata paul	Operating System [T-CS603], Design Lab / Industrial problem [L- CS891], Cryptography & Network Security [T-CS801D], Programming for Problem solving [T-ES-CS201]		1	6	8	14
10	Mr. Bikash Chandra Sadhukhan	Computer Network [T-CS602], Computer Network Lab [L-CS692]	1	1	4	3	7
11	Ms. Nabanita Das	Computer Architecture [L-CS493], Computer Architecture [T- CS403], Programming for Problem solving [T-ES-CS201, L- ES- CS291]	2	2	7	11	18
12	Mr. Arghya Kusum Das	Operating System [T-CS603], Operating System Lab [L-CS693], E- Commerce(IT) [T-CS802E]	2	1	5	6	11
13	Ms. Sayantani De	Programming for Problem Solving [L- ES-CS291], Programming for Problem solving [T-ES-CS201]	1	1	6	10	16
14	Mr. Debraj Chatterjee	Computer Network Lab [L-CS692], Programming for Problem solving [T-ES-CS201]	1	1	1	12	13
15	Mr. AMAL KUMAR SAHA	Data Base Management System [T-CS601], E-Commerce(IT) [T- CS802E], Design Lab / Industrial problem [L-CS891], Programming for Problem Solving [L- ES-CS291]	2	2	6	6	12

#### K.COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	0	2	6	6	8	7	3	2	34
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	6	6	8	7	3	2	34
No. of courses for which the Lesson Plans are modified after verification	0	1	2	2	3	2	1	1	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 Mentees	No of mentoring sessions	Remark
1.	Arghya Kusum Das	18700115048-18700115048 [2015-19 batch]	20	14	All issues risolved
2.	Swagata Paul	18700116011-18700116036 [2016-20 batch]	25	15	4 weak and 3 bright students found, 1 remedial class recommended for conduction
3.	Debraj Chatterjee	18700116037-18700116062 [2016-20 batch]	25	20	8 weak students found, 1 remedial class recommended for conduction

4.	Nizamuddin Laskar	18700116062-18700116087 [2016-20 batch]	25	18	3 weak students found, 1 remedial class recommended for conduction
5.	Sananda Mitra	18700116087-18700116103 [2016-20 batch]	16	21	2 weak and 1 bright students found, 1 remedial class recommended for conduction
6.	Amal Saha	18700117007-18700117031 [2017-21 batch]	24	15	12 weak students identified (odd and even semester), 2 remedial classes recommended for conduction
7.	Nilanjana Adhikari	18700117033-18700117056, 18700217034, 18701317051 [2017-21 batch]	26	20	6 weak students identified and 4 advanced learner identified
8.	Nabanita Das	18700117057-18700117081 [2017-21 batch]	25	17	All issues risolved
9.	Tanusree Chatterjee	18700117082-18700118016 [2017-21 batch]	21	24	Class related issues identified and risolved

## M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

Sl. No.	Faculty Name	Cell/ Committee/ Club
1	Sayantani De	Science and Technology club, Routine committee
2	Arghya Kusum Das	NAAC Committee,Grievance Redressal Cell
3	Debraj Chatterjee	Member of Photography club, Coding Club, Member of Anti Ragging Committee, Assists in placement activities, Taking pre-placement classes, Mentoring students, Member of Cultural committee.
5	Nilanjana Adhikari	Form and Review form fill up committee, member of TINT Literary Club - LITWITS i

6	Tanusree Chatterjee	Member of Training & Placement Committee for Technical Skill Improvement, Departmental Coordinator of ISTE Student Chapter, Member of Sports Committee.
7	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
8	Malancha Khan	Member of Anti Ragging Committee, Member of Kanyashree Club, Exam Form and Review form fill up committee, Grade card and registration Certificate distribution,

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

	Total number	Duration	International/National/Stat e/University/Inter College/ Intra College	Total no of participation
Expert Talk	Nil	_	_	_
FDP	Nil	_	_	_
Seminar	Nil	_	_	_
Workshop	Nil`	_	_	_
Conference	Nil	_	_	_
#### O. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ATTENDED

	Total number	Duration	International/National/Stat e/University/Inter College/ Intra College	Total no of participation
Expert Talk	Nil	_	_	-
FDP	8	Variable	National/State/University	6
Seminar	Nil	_	_	_
Workshop	Nil	_	_	_
Conference	6	2/3 Days	International	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/Un iversity/Inter College/ Intra College
1	Departmental fest	CSE Department	All student	All faculty	Inter College
2	Technergize Initiative Lead IEEE Computer Society India SAC	IEEE Computer Society India SAC	Shrutina Agarwal		National
3	EAIT PRE CONFERENCE TUTORIAL 2018	TICT	Anirban Debnath		Intra college
4	IISC Bangalore	GATE	Shrutina Agarwal		National

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

#### R. NO. OF STUDENTS PLACED: 58

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	94	79	47	11	58	73

#### S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
	SWAGATA PAUL	ASST PROFESSOR
	BIKASH SADHUKHAN	ASST PROFESSOR
	NABANITA DAS	ASST PROFESSOR
	ARGHYA KUSUM DAS	ASST 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	PE INT. CONFERENCE	JOURNAL		BOOK CHAPTER	AUTHORED BOOK	TOTAL
	CONTERENCE	SCOPUS	SCI/eSCI			
Faculty only	1	0	0	0	0	1
Student-Faculty	0	0	0	0	0	0

#### V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	<ol> <li>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.</li> <li>Next,project groups formed on the basis of merit are disseminated with the list of topics.</li> <li>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.</li> </ol>
NO OF PROJECT GROUPS	19
NO OF PROJECT PROGRSS REPORTS SUBMITTED	19

#### 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
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 .
- Conducted an expert talk on the topic Laser, Butterfly Effect and Secure Communication on 10/08/2018 by Dr. Dhruba Jyoti Biswas, Raja Ramanna Fellow Former Head, Laser & Plasma Technology Division Bhabha Atomic Research Centre .
- Infosys Campus Connect Program is conducted by CSE & MCA Dept and the assessment tests are conducted through http://cms.tict.edu.in

#### 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	98	94	

2.	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	30 Hours	92	83	
3.	Programming for complex problem solving using pseudocode	30 Hours	92	86	
4.	Linux System Administration	30 Hours	98	93	
5.	Computer Fundamentals, Installations and Maintenance	30 Hours	81	76	

#### AA. SWOC ANALYSIS:

SWOC	ANALYS IS
STRENGTH:	<ul> <li>a) External exposure of students in project events of IEEE and ACM alongwith winning awards thereby boosting their confidence and Dept / institution presence in the global map.</li> <li>b)Excellent performance in NPTEL courses with 387 Elite grade out of 1019 getting an overall rating of AA .</li> </ul>
WEAKNESS:	a)Lateral admitted students admitted during the mid of semester get less time for preparation.
<b>OPPORTUNITIES:</b>	<ul> <li>a) Most of the faculty members are moderately experienced to guide the students efficiently.</li> <li>b) Use of Moodle in conducting courses and using it as a sharing platform.</li> <li>c) With the revision of syllabus contemporary courses on latest cutting-edge technologies IT Workshop python, computational statistics and machine learning would be helpful for students career-wise.</li> <li>d) To promote interest in Big Data among students and researchers, a lab set-up of a hadoop cluster of 30 nodes and a mongo DB cluster of 30 nodes is deployed.</li> </ul>
CHALLENGES:	Not enough support for research projects and publication

## Techno International New Town Academic Audit Evaluation Report Department of Computer Science and Engineering Assessment Year (3 Years): AY 2016-17, 2017-18, 2018-19

Clause No	Score in 5 point sc	Remarks	
	Internal Audit	External Audit	
Α	5	5	
В	4	4	
С	5	5	
D	4	4	
E	A	4	
F	3	2	
G	4	3	
Н	4	4	
I	4	4	
J	4	4	
к	4	4	
L	3	3	
M	4	4	
Ν	4	4	
0	3	3	2
P	3	3	
Q	3	3	
R	3	3	
S	4	4	
Т —	4	A	
U	3	3	
V	A	4	
W	0	0	
X	0	0	
Y	4	Å	
Z	4	4	
AA	4	4	
Total	94	04	

Sl. No.	Name	Affiliation	Signature
External Auditor	DR. PINAKPANI PAL	PROFESSOR, ISI, KOLKATA	Righthan Ral &
Internal Auditor	PROF. SWAGATA PAUL	ASST PROFESSOR, TINT	Savagaster Part
Internal Auditor	- PROF. NABANITA DAS	ASST PROFESSOR, TINT	Natraik Q.
HOD	PROF. BIKASH SADHUKHAN	ASST PROFESSOR, TINT	to thick son
IQAC Coordinator	DR. TAPAS KR. NANDI	ASSO. PROFESSOR, TINT	
Director	DR. R.T.GOSWAMI	DIRECTOR, TINT, TINT	River
			-



Comments of the auditor:

Rhakfair Ral Name and Signatures of Internal Auditors

Name & Signature of the IQAC Coordinator

1. SWAGATA PAUL Saragata Daul 2. NABANITA DAS Nabanih Qu

Dr. Tapas Kr. Nandi — K. H. — Oy





# EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT

# AY - 2018-2019

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (Date of Audit: February 08, 2019)



# **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	2018-19							
Student Intake	90 + 18 = 108							
No. of enrolled student	71 +	10 =	81					
	I II III IV V VI VII VIII							
No. of Theory courses offered	6 5 6 8 8 5							
No. of Practical classes offered	-	-	5	4	5	5	8	3

## B. FACULTY/ STAFF STRENGTH :17

## C. STUDENT FACULTY RATIO : 18:1

## D. NO. OF LABORATORIES : 13

## E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

SI. No.	Lab Name	No. of accommodation	Equipment	Specification	Last Upgraded
1	Basic Electronics Lab	30	FET Characteristics Trainer kit (qty-6)		
	1(ES-191, ES- 291)		Function Generator (qty-2)		
			CRO (qty-2)		
			DC regulated variable power supply Dual channel(qty-6)		
2	Basic Electronics Lab	30	TAT Kit (qty-4)		
	2 (ES-191, ES- 291)		Function Generator (qty-2)		
			CRO (qty-7)		
			DC regulated variable power supply Single channel(qty-2)		
			DC regulated variable power supply Dual channel(qty-8)		
3	Circuit Theory	30	TAT Kit (qty-11)		

	Lab (EC-391) & Solid State Lab		DC regulated variable power supply Dual channel (qty-2)	
	(EC 392)		Fixed Power Supply (qty-2)	
			CRO (qty-1)	
			Function Generator (qty-2)	
			PC (qty-9)	
			Multisim Licensed software (qty-5)	
4	Signal &	30	PC (qty-28)	
	393)		12 Volt /26 Ah Battery (qty- 20)	
			UPS (qty-1)	
5	Analog Electronics Lab	30	DC regulated power supply (qty-10)	
	(EC 394)		CRO (qty-5)	
			DSO (qty-1)	
			Function Generator (5MHz) (qty 1)	
			Function Generator (2MHz) (qty-5)	
			4/8 Bit Analog to digital converter (qty-1)	
			4/8 Bit Digital to Analog converter (qty-1)	
			Differential Amplifier Trainer Kit (qty-1)	
			TAT Kit (qty-2)	
6	Antenna Lab (EC 491)	30	Transmission line trainer kit (qty-2)	
			R.F Antenna trainer kit (qty-5)	
			Antenna trainer kit with micro- wave test bench (qty-2)	
			VNA Kit (qty-1)	
			3GHz Spectrum Analyzer (qty- 1)	
7	Digital Electronics Lab	30	Digital Trainer Kit (Model ST- 2614) (qty- 4)	
	(EC 492)		Digital Trainer Kit(ADT-01)( qty -6)	

			Digital to Analog Conversion Kit (qty -2)	
			Analog to Digital Conversion Kit (qty- 2)	
			DC regulated fixed power supply (qty -6)	
			IC Tester (qty-1)	
			UP Down Counter Kit(qty-4)	
			Function Generator(qty-1)	
			CRO(qty-1)	
8	Communication Engineering Lab	30	DC regulated power supply (qty-4)	
	(EC 591 & EC 691)		Function Generator (100 µHz to 40 MHz) (qty-1)	
			Function Generator (3MHz) (qty-1)	
			Function Generator (25MHz) (qty-1)	
			CRO 30MHz (qty-5)	
			DSO (colour) (qty-4)	
			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-2)	
			PN Sequence trainer Kit (qty- 2)	
			PAM Trainer Kit (qty-5)	
			PCM Transmission Kit (qty-1)	
			PCM demodulation Kit (qty- 1)	
			Data conditioning Kit (qty-1)	
			Delta & Adaptive delta modulation and demodulation trainer Kit (qty-1)	
			ASK,PSK,FSK trainer Kit (qty-1)	
			QPSK/DQPSK trainer Kit	

			(qty-2)	
9	Microprocessor Lab1 &	30	Microprocessor (8085) ESA kit with power supply (qty-2)	
	Lab2 (EC 592)		EPROM Eraser (qty-1)	
			ESA-86/88-2 with Nicol battery, multi-output power supply, RS -232 cable, driver software (qty-2)	
			ESA86-3 with Nicol battery, pc keyboard, multi-output power supply, RS -232 cable, driver software (qty-2)	
			ESA make 8255 study card with adapter (qty-2)	
			ESA make model IF-8A0C 12M ADC Interface (qty-2)	
			ESA make DC motor interface (qty-2)	
			Microprocessor (8085) NV55 kit (qty-9)	
			ESA make Temperature Display Interface (qty-2)	
10	Control, DSP & VLSI Lab (EC 593, EC 692, EC 792)	30	T1 model TMS 3206 5416 based DSP starter kit with power supply & software (qty- 1)	
			TI model TMS 3206 6713 based DSP starter kit with power supply & software (qty- 1)	
			T1 model TMDCCS. All code composer studio software (qty- 1)	
			INSTAKE make model GFG- 3015 programmable 15 MHz Function Generator (qty-1)	
			INSTAKE make model GDS- 2102 100 MHz digital storage oscilloscope with color TFT display (qty-1)	
			Matlab DVD Kit For PC & Unix, Release R2008A (5 user)	
			Simulink (5 user)	
			Signal Processing Box (5 user)	
			Signal Processing Block-set (5 user)	

			Control System Toolbox (5 user)	
			Simulink Control Design (5 user)	
			Xilinx ISE 11i software (30 user)	
			FPGA KIT-SPARTAN-3 (qty- 3)	
			Mentor HEP 1 and 2 CD (3 yrs. 10 users license) (license expired)	
			Tanner EDA Tool 2010 (5 user) (license expired)	
			Xilinx System Edition CD (qty-1)	
			XUP Spartan 3E starter kit (qty-1)	
			VLSI Trainer kit (qty-1)	
			UPS (qty-1)	
11	Microwave Lab	ave Lab 30 SA)	Klystron Power Supply (qty-4)	
	(EC 793A)		Klystron tube with Klystron mount (qty-4)	
			Gunn Power Supply (qty-3)	
			Gunn Oscillator (qty-3)	
			PIN Modulator (qty-3)	
			Isolator (qty-6)	
			Variable Attenuator (qty-6)	
			Frequency Meter (qty-6)	
			Slotted Section (qty-6)	
			Tunable Probe (qty-6)	
			SS Tuner (qty-4)	
			Detector Mount (qty-6)	
			Movable Short (qty-5)	
			Precision Short (qty-1)	
			Matched Terminator (qty-5)	
			Phase Shifter (qty-1)	
			E Plane, H Plane and Magic Tee (qty- 1 each)	
			3 d B Coupler (qty-2)	

			10 d B and 20 d B Coupler (qty -1 each)	
			Liquid Dielectric Cell (qty-1)	
			Solid Dielectric Cell (qty-1)	
			VSWR Meter (qty-4)	
			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	Project Lab(EC-	30	PC (qty-4)	
	(82)		DSO (qty-2)	
			Function Generator (qty-2)	
			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)	20	NBA, departmental research	Associate Professor	7/3/2017
2.	Prof.(Dr.) Pradip Kumar Ghosh	Ph.D. (Electron Devices)	22	NBA, departmental research	Professor	16/3/2018
3.	Prof.(Dr.) Diptiman Roy Chaudhuri	Ph.D. (Electron Devices)	40	NBA, departmental research	Professor	10/3/2015

				Students Result Analysis, Mark		
4.	Prof. Subhankar Bhattacharjee	M. Tech. (VLSI)	18	sheet related Issues, Exam Challan, Mark sheet	Assistant Professor	1/2/2006
		M. Tech. (Radio		Departmental		
5.	Prof. Ardhendu Shekhar Biswas	Physics and Electronics)	18	other report, lab requisition	Assistant Professor	12/2/2007
6.	Prof. Md. Anoarul Islam	M.Tech. (Communication)	14	Mentoring supervision, Faculty/ students Research Publication, External event achievements by the students	Assistant Professor	19/10/2006
				Students Result Analysis, Mark		
7.	Prof. Attreyee Mandal	M.Tech. (Communication)	13	sheet related Issues, Exam Challan, Mark sheet distribution	Assistant Professor	2/2/2007
				Departmental extracurricular		
8.	Prof. Joyati Chattopadhyay	M.Tech. (Communication)	13	program (Engineers day, teachers day, fresher's welcome, students farewell	Assistant Professor	6/10/2007
				Training placement,		
9.	Prof. Sandip Bhattacharya	M.Tech. (VLSI and Microelectronics)	11	extracurricular program (Engineers day, teachers day, fresher's welcome, students farewell etc)	Assistant Professor	2/4/2009
10.	Prof. Vivekananda Mukherjee	M.Tech. (Mechatronics)	12	Training placement, Admission promotion, Project competition/Co- curricular activities	Assistant Professor	3/7/2013
11.	Prof. Judhajit Sanyal	M.Tech. (Radio Physics and Electronics)	12	Students Result Analysis, Mark sheet related Issues, departmental research	Assistant Professor	29/6/2016
12.	Prof. Arup Kumar Ghosh	M.Tech. (Electron Device)	19	Departmental extracurricular program (Engineers day, teachers day, fresher's welcome, students farewell etc)	Assistant Professor	8/6/2016
13.	Prof. Atanu Chakraborty	M.E. (Illumination)	10	Routine/class execution report/Class room supervision	Assistant Professor	21/8/2010

14.	Prof. Dipshika Das	M.Tech. (VLSI and Microelectronics)	8	Routine/class execution report/Class room supervision	Assistant Professor	27/7/2011
15.	Prof. Trilochan Patra	M.Tech. (Communication)	8	Routine/class execution report/Class room supervision, alumni record	Assistant Professor	27/7/2011
16.	Salini Bose	M. Tech	1	Class supervision	Assistant Professor	12/01/2019
17.	Prof. Wasif Nafis	M.E. (Communication)	1	Class supervision	Assistant Professor	25/1/2018

#### 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	2	2	1
6	5	4	4
7	11	6	5
8	7	4	2

#### I. COURSE DELIVERY:

Voor/		From Core	Dept.		From Other	· Dept.		To Other D	)ept.
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									
II									
III	8	4+3	14+6	4	2+2	6+3	6	3+2	9+4
IV	4	2+2	8+4	6	3+2	10+4	2	1+1	3+2
V	6	3+3	11+6	2	1+1	4+2	2	1+1	3+2
VI	6	3+2	9+4	4	3+2	8+4	1	1+0	3+0
VII	12	6+3	18+6	2	1+1	3+2	1	1+1	3+2
VIII	17	2+3	6+13	2	1	2			

## J. WORKLOAD DETAILS:

S. No Name of the faculty member		Name(s) of the Theory/Lab		No. of Courses		of iods	Work Load	Comple tion
			Т	Р	Т	Р		Status
1.	Prof.(Dr.) Manabendra Maiti	EC-501Analog Communication, EC- 591Analog Communication Lab, EC-701 Wireless Communication & N/W, EC782 Project part-1.	2	2	5	16	21	Complete
	Maiti	EC401 EM Theory & Transmission Line, EC491 EM Theory & Transmission Line Lab, EC 882 Project Part-2.	1	2	2	10	12	
2.	Prof.(Dr.) Pradip Kumar Ghosh	EC-303 Signals & Systems, EC-393 Signal System Lab Lab,EC782 Project Part-1.	1	2	4	10	14	Complete

		EC604B Information Theory						
		& Coding EC691 Digital						
		Communication Lab EC801C						
		Sotallita Communication &	2	2	7	10	17	
		Remote Sensing, EC882						
		Project Part-I						-
		EC-704B Embedded Systems,						Complete
		EC-792VLSI Design Lab	1	2	3	13	16	
		EC782,Project Part-1.						
-	Prof.(Dr.) Diptiman	EC402 Digital Electronics and						
3.	Rov Chaudhuri	Integrated Circuit EC492						
		Digital Electronics and	1	2	2	10	12	
		Integrated Circuit Lab EC	•	2	2	15	12	
		Regrated Clicuit Lab, EC						
		882 Project Part-2.						G 1.
		EC-301Circuit Theory &						Complete
		Networks, EC-391 Circuit						
		Theory & Network Lab, EC-						
		702Microelectronics & VLSI	2	3	7	16	23	
		Designs, EC-792VLSI						
	Prof. Subhankar	Design Lab.EC782 Project						
4.	Bhattachariee	Part-1						
		EC601 Digital						-
		Communication,		~	•		47	
		EC691Digital Communication	1	3	3	14	17	
		Lab, EC881Design Lab, EC						
		882 Project Part-2.						
		EC-501 Analog						Complete
		Communication, EC-591						
		Analog Communication Lab						
		FC-393 Mini Project/	1	3	3	16	19	
		Electronic Design Workshop						
5	Prof. Ardhendu	EC782 Design workshop,						
5.	Shekhar Biswas	EC /82 Project part-1.						-
		EC602 Digital Signal						
		Processing, EC692Digital						
		Signal Processing Lab, EC881	1	3	3	20	23	
		Design Lab, EC 882 Project						
		Part-2.						
		EC-304 Analog Electronic						Complete
		Circuits, EC-394 Analog						-
		Electronic Circuits I ab						
		EC(EE 301) Analog & Digital	2	3	7	16	23	
		EC(EE-391) Analog & Digital	2	5	1	10	25	
		Electronic circuit, EC-/04A						
		Radar Engg, EC/82Project						
6.	Prof Md Anoarul Islam	Part-1.						_
	i i oi, ivia / iiioai ai istati.	EC402 Digital Electronics and						
		Integrated Circuit, EC						
		492Digital Electronics and						
		Integrated Circuit Lab. CS491	1	3	4	16	20	
		Communication Engg and	-	-	-			
		Coding Theory Jab FC 882						
		Drojost Dart 2						
		$\frac{1}{10} = \frac{1}{10}$						Committee
		EC-501 Analog						Complete
		Communication, EC-591						
7	Prof Attrevee Mandal	Analog Communication Lab,	2	3	7	16	23	
7.		EI-704A Radar Engg, EI-	2	5	'	10	20	
		794A Communication Lab,						
		EC782 Project Part-1.						

		CS401 Communication Engg. and Coding Theory, CS491 Communication Engg. and Coding Theory lab, EC691 Digital Communication Lab, EC604B Information Theory & Coding, EC 882 Project Part-2.	2	3	4	16	20	
8.	Prof. Joyati Chattopadhyay	EC-502 Microprocessor & Microcontrollers, EC-592 Microprocessor & Microcontrollers lab , EC(EE- 391) Analog & Digital Electronic circuit , EC-701 Wireless Communication & N/W, EC782 Project part-1.	2	3	7	16	23	Complete
		EC881 DESIGN LAB, EC 882 Project Part-2.	0	2	0	12	12	
9.	Prof. Sandip Bhattacharya	EC-302 Solid State Device,EC-393 Signal System Lab,EC-502 Microprocessor & Microcontrollers,EC-592 Microprocessor & Microcontrollers lab, EC782 Project Part-1.	2	3	6	14	20	Complete
		EC602 Digital Signal Processing, EC692 Digital Signal Processing Lab, EC882 Project Part-2.	1	2	3	16	19	
10.	Prof. Vivekananda	EC-302 Analog Electronics Circuits, EC-392 Analog Electronics Circuits Lab , EC(EE-302) Artificial Intelligence , CS-391 Mini Project/ Electronic Design Workshop,EC782 Project Part-1	2	3	8	16	24	Complete
10.	wiuknerjee	EC402 Digital Electronics and Integrated Circuit,EC492 Digital Electronics and Integrated Circuit Lab,EC491 EM Theory & Transmission Line Lab, EC 882 Project Part-2.	1	3	4	16	20	
11.	Prof. Judhajit Sanyal	EC-703A RF & Microwave Engg, EC-793A RF & Microwave Engg. Lab,EC-301 Circuit Theory & Networks, EC-391 Circuit Theory & Network Lab, EC782 Project Part-1.	2	3	8	16	24	Complete
		EC401EM Theory & Transmission Line, EC491 EM Theory & Transmission Line Lab,EC882 Project Part- 2.	1	2	6	16	22	

		EC-503Control System, EC-						Complete
		593Control System Lab, EC- 304 Analog Electronic						
		Circuits, EC-394 Analog	2	3	8	16	24	
		Electronic Circuits Lab,						
12.	Prof. Arup Kumar	EC782Project Part-1.						
	Gnosn	EC 603Telecommunication						
		System, EC601Digital						
		Communication,	2	2	6	10	16	
		EC691Digital Communication						
		Lab, EC882 Project Part-2.						<u>a</u> 1.
		EC-303 Signals & Systems,						Complete
		EC(EE-301) Analog						
		Electronic circuits EC-393	2	3	8	16	24	
		Control System EC782						
	Prof Atanu	Project Part-1						
13.	Chakraborty	CS 401Communication Engg						
	,	and Coding Theory, CS491						
		Communication Engg. and	0	~	7	10	47	
		Coding Theory lab, EC802C	2	2	1	10	17	
		Renewable Energy, EC 882						
		Project Part-2.						
		CS-301Analog & Digital						Complete
		Electronics, CS-391Analog &						
		Digital Electronics, EC-704B	2	3	7	16	23	
		Embedded Systems EC-792						
		VLSI Design Lab						
14.	Prof Dinshika Das	CS401 Communication Enga						
	i ioi. Dipsilika Das	and Coding Theory FC801C						
		Satellite Communication &						
		Remote Sensing, CS491	2	2	7	10	17	
		Communication Engg. and						
		Coding Theory lab, EC 882						
		Project Part-2.						
		CS-301 Analog & Digital						Complete
		Electronics, CS-391 Analog &						
		Digital Electronics Lab, EC-	C	2	0	16	24	
		FC 703 A PE & Microwave Engg,	2	3	0	10	24	
		EC-795A KF & Microwave Engg Lab EC782 Project						
15.	Prof. Trilochan Patra	Part-1.						
		EC 603 Telecommunication						-
		System,						
		CS491 Communication Engg.	1	3	3	16	10	
		and Coding Theory lab,	1	5	5	10	19	
		EC881 Design Lab, EC 882						
		Project Part-2.						G 1
		ממט						Complete
		EC492 Digital Electronics and						1
		Integrated Circuit Lab,						
16.	Prof. Salini Bose	EC881Design Lab,	1	2	2	11	16	
		EC604BInformation Theory	I	3	2	14	10	
		& Coding,EC882 Project Part-						
		2.						

17. P	Prof Wasif Nafis	EC-704A Radar Engg, EC- 792 VLSI Design Lab, EC782 Project Part-1.		2	3	16	19	Complete
		EC605AObject Oriented Programming, EC695AObject Oriented Programming lab, EC882 Project Part-2.	1	2	6	16	22	

#### K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared			7	3	4	4	7	2	27
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)			7	3	4	4	7	2	27
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:

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. Subhankar Bhattacharjee	18700317073 - 18700318010	29	26	
2.	Prof. Ardhendu Shekhar Biswas	18700318011 - 18700318029	18	26	
3.	Prof. Arup Kumar Ghosh	18700318051 - 18700318070	19	26	
4.	Prof. Md Anoarul Islam	18700317011 - 18700317040	29	26	
5.	Prof. Joyati Chattopadhyay	18700315001-18700315035	33	26	
6.	Prof. Attreyee Mandal	187003150036- 187003150071	33	26	
7.	Prof. Vivekananda Mukherjee	18700316070 - 18700317009	30	26	
8.	Prof. Atanu Chakraborty	18700318030 - 18700318050	19	26	
9.	Prof. Sandip Bhattacharyaa	18700316004 - 18700316035	31	26	
10.	Prof. Judhajit Sanyal	18700317041 - 18700317072	29	26	
11.	Prof. Trilochan Patra	18700318071 - 18700319118	19	26	
12.	Prof. Dipshika Das	18700316036 - 18700316069	31	26	
13.	Prof. Wasif Nafis	18700315072-18700316003	32	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.) Diptiman Roy Chaudhuri	
4.	Prof. Subhankar Bhattacharjee	DAC and research committee, Exam Cell member, IIC
5.	Prof. Ardhendu Shekhar Biswas	EDC, DAC and research committee, IIC, Club of performing art
6.	Prof.Md Anoarul Islam	DAC, Departmental NBA coordinator, IPR, Photography club
7.	Prof. Attreyee Mandal	DAC
8.	Prof. Joyati Chattopadhyay	Departmental clause coordinator NAAC, DAC, Kanyasree club
9.	Prof. Sandip Bhattacharya	Anti-ragging committee, DAC, Cultural committee, Cine club, Placement cell, Aesthetica
10.	Prof. Vivekananda Mukherjee	Disciplinary committee, DAC, Cultural committee, Placement cell, Coding club
11.	Prof. Judhajit Sanyal	DAC, Departmental research committee
12.	Prof. Arup Kumar Ghosh	DAC, Routine committee, Sports committee, Science and tech club
13.	Prof. Atanu Chakraborty	DAC, Routine committee, Sports committee, TINT Hikers and Planeteers
14.	Prof. Dipshika Das	DAC
15.	Prof. Trilochan Patra	DAC
16.	Prof. Salini Bose	
17.	Prof. Wasif Nafis	

#### 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	2	2 days	Intra College	<ul><li>129 students</li><li>4 faculty members</li></ul>
Workshop	1	2 days	Intra College	88 students 8 faculty members
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	3	3 hrs	University/Inter College/ Intra College	1
FDP	5	20 hrs.	University/Inter College/ Intra College	4
Seminar	9	15 hrs	University/Inter College/ Intra College	6
Workshop	3	15 hrs	University/Inter College/ Intra College	3
Conference	6		International/ National	6

# P. ACHIEVEMENTS OF THE STUDENTS/ FACULTY 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	2nd Position in 200 m Race in Intra College Sports meet 2019	TINT	Souradip Patra		Intra College
2	2nd Position in event "INNOVARE" in "INNOVACION 2019"	UEM	Vipul Bariyar		Inter College
3	2nd position in Quiz	ISTD, Kolkata chapter	Anirban Patra		University
4	1st position in model presentation in "PRABUDDHA- 19" Tech Fest.	TINT	Arpan Saha		Intra College
5	2nd Position in 200 m Race, 2nd position in relay race in Intra College Sports meet 2019	TINT	Rajashree Masid		Intra College
6	2nd Position in Poster Competition in "ENERGIA 2K19"	Department of Energy management, IISWBM, Kolkata	Anuska Mandal		Inter College
7	Full course of programming in C/C++	Rijksuniversiteit groningan	Rahul Kumar Prajapati		International
8	Participated in the Expert Talk "How Artificial Intelligence, internet of things, Machine Learning, Robotics etc. are going to Impact the Business and Society"	Rotary Sadan, Prof, (Dr.) Sudeshna Sarkar Head CSE, Centre for Artificial Intelligence, IIT, KGP	4 students and 1 faculty member		University
9	Awarded Top performing mentor Jul-Oct'2018	NPTEL		1 Faculty from ECE Department	National
10	Academic Visit at CRNN, University of Calcutta	CRNN university of Calcutta and TINT	50 Students and	3 Faculty member	University

#### Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION

#### **R. NO. OF STUDENTS PLACED**

3 53

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## S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1.	Prof.(Dr.) Manabendra Maiti	Associate Professor
2.	Prof.(Dr.) Pradip Kumar Ghosh	Professor
3.	Prof. 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
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.	JOURNAL		BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/ ESCI	CHAPTER	BOOK	
<b>Faculty only</b>	08		03			11
Student-Faculty	03					03

#### V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	The allotment of the project is carried out through the steps mentioned as follows:

	The students are asked to fill up their project preferences according to priority in a format provided by the Department. The filled up document is used by the Departmental Project Coordinator to allocate projects. Students selecting the same area will be a group but however, say eight students apply to the same area, then based on CGPA four students will get 1 <sup>st</sup> preference and the rest are allocated to their second priority and so on. Once project allocation is completed, students are allowed to start their project.
NO OF PROJECT GROUPS	20
NO OF PROJECT PROGRESS REPORTS SUBMITTED	20

#### W. DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS
	NIL		

#### X. DETAILS OF IPR

Sl. No.	Patent	Copyright	<b>Details of IPR</b>	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.	SUMMER TRAINING by ELAHE TECHNOLOGIES	60	37	37	
2.	SUMMER TRAINING by DITSA TECHNOLOGIES	60	48	48	
3.	Domain knowledge training by PERENNATION COMPUTER SOLUTIONS GLOBAL PRIVATE LIMITED	30	35	35	Name of the topic: Fundamental of OOPS linking with JAVA
4.	Domain knowledge training by PERENNATION COMPUTER SOLUTIONS GLOBAL PRIVATE LIMITED	30	42	42	Name of the topic: C Programming with Basic Data Structure
5.	DOMAIN KNOWLEDGE TRAINING PROGRAM FOR COMPETITIVE EXAM AND CAREER COUNSELING by Anjan Dutta.	30	74	74	Name of the topic: Programming Fundamentals-C Language
6.	DOMAIN KNOWLEDGE TRAINING PROGRAM FOR COMPETITIVE EXAM AND CAREER COUNSELING by ANABIL ROY	30	78	78	Name of the topic: Analog and Digital Electronic Circuit Design
7.	DOMAIN KNOWLEDGE TRAINING PROGRAM FOR COMPETITIVE EXAM AND CAREER COUNSELING by HEAD NODE SOLUTIONS PVT.LTD.	30	35	35	Name of the topic: Python with DBMS

#### AA. SWOC ANALYSIS:

SWOC	ANALYSIS
STRENGTH:	<ul> <li>Dedicated and quality Faculty</li> <li>Quality of laboratories</li> <li>Advanced student projects and R &amp; D focus/publications</li> <li>Emphasis on Hands-on training for students</li> <li>Unity, coordination and expertise among faculty members and technical staff</li> </ul>
WEAKNESS:	Need to conform to university curriculum, hence no flexibility in curriculum design
OPPORTUNITIES:	<ul> <li>Possibilities of great enhancement in technical quality of students through partnership programs with government institutions and companies</li> <li>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</li> <li>Entrepreneurship and start-up activities among students.</li> </ul>
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

Professor P. K. Ghosh

Internal Auditor

Internal Auditor

Professor Subhankar Bhattacharjee

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Name & Signature of the IQAC Coordinator

Professor Tapas Kumar Nandi

IQAC Coordinator

Welcosh. Sh-

#### Name & Signature of the HoD

Professor M. Maiti

Head, Department of ECE

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## Techno International New Town Academic Audit Evaluation Report

#### Assesment Year (3 yrs.): 2016-17, 2017-18, 2018-19

Clause No.	Score in 5 point 1	Remarks	
clause ivo.	Internal Auditor	External Auditor	Remarks
В	4	3.9	
С	5	5.0	
D	5	4.8	
E	4	3.0	
F	5	3.8	
G	5	4.9	
н	5	. 5.0	
1	5	5.0	
J	5	4.0	
к	5	A.2/	
L	5	5.0	
м	5	A:5	
N	4	: 3.0	
0	4	3.5	
Р	2	1.5	
Q	5	4.2	
R	5	4.8	
S	5	5.0	
T	5	4.8	
U	5	5.0	
v	5	4.8	
w	0	_	
x	0	-	
Y	5	4.1	
Z	5	4.7	
AA	5	415	
TOTAL	113	104.1	

	Name	Designation	Affiliation	Signature '	
External Auditor	CHANCHALDEY	Assve. Peof.	C.N.	AT	
Internal Auditor	Prof.(Dr.) Pradip Kumar Ghosh	Professor	TINT	toxebook.	
Internal Auditor	Prof. Ardhendu Shekhar Biswas	Assistant Professor	TINT	Ars.	

Associate Professor Department of Applied Physics University of Calcutta

IQAC Coordinator	Prof.(Dr.) Tapas Kumar Nandi	Associate Professor	TINT	-2.K Qui
HoD	Prof.(Dr.) Manabendra Maiti	Associate Professor	TINT	- Sentor .
Director	Prof.(Dr.) R. T. Goswami	Director	TINT	Barrami

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SWOC	ANALYSIS
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:	<ul> <li>Possibilities of great enhancement in technical quality of students through partnership programs with government institutions and companies</li> <li>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</li> <li>Entrepreneurship and start-up activities among students.</li> </ul>
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 & Signature of the IOAC Coordinator Name & Signature of the HoD Name and Signatures of Internal Auditors 1. PKhosh. (Prof. P.K. Ghosh) Dr. Tapas. Kumar Navdi 2. Suffor Kr Ghitalizi (Dr. Subhankar Bhitalizer) DR. MANA BENDRA MAITI AMD. Vestfiel. Associate Professor Department of Applied Physics University of Calcutta

#### <u>Academic Audit Report Remarks</u> (AY 2016-2017 to 2018-2019) (Date of Audit: 08.02.2019)

Items

- A. DEPARTMENT DETAILS
- B. FACULTY/STAFF STRENGTH
- C. STUDENT FACULTY RATIO
- D. NO. OF LABORATORIES
- E. DETAILS OF THE EQUIPMENTS IN LABORATORIES
- F. DETAILS OF ICT TOOLS
- G. FACULTY DETAILS
- H. CHOICE BASED ELECTIVE COURSE
- I. COURSE DELIVERY
- J. WORKLOAD DETAILS
- K. COURSE LESSON PLAN PREPARATION AND VERIFICATION
- L. STUDENT MENTORING SYSTEM
- M. DETAILS OF NON-ACADEMIC RESPONSIBILITY
- N. EXPERT TALK/ FDP/ SEMINAR/ CONFERENCE/ WORKSHOP ORGANISED
- O. EXPERT TALK/ FDP/ SEMINAR/ CONFERENCE/ WORKSHOP ATTENDED
- P. ACHIEVEMENTS OF THE STUDENTS/ FACULTY MEMBERS IN EXTRA/ CO CURRICULAR ACTIVITIES
- Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION
- R. NO. OF STUDENTS PLACED
- S. DEPT. ACADEMIC COMMITTEE (DAC)
- T. MINUTES OF THE DEPT. MEETING
- U. DEPARTMENTAL RESEARCH INITIATIVES
- V. STUDENT PROJECT MENTORING SYSTEM
- W. DEPARTMENTAL PROJECT INITIATIVES
- X. DETAILS OF IPR
- Y. BEST PRACTICES FOLLOWED IN THE DEPARTMENT

Remarks

Department of ECE, TINT Satisfactory Excellent Total 13 laboratories available

More Experimental kits/ software tools are required

Available, scopes for improvement

Qualified and highly experienced faculty members Sufficient number of Electives are available in University syllabi

Own faculty and faculty from service departments.

Standard work load pattern followed

Standard practice to prepare lesson plan and share to the students

Exists. 25 to 30 students are assigned to each Mentor.

Students welfare (Clubs, Sports, Cultural), Anti-ragging, Disciplinary, Placement cell, etc. Also faculties are members of DAC, IIC, NAAC documentation, etc.

Satisfactory, but improvement needed

More Faculties need to be involved

Students participate in various technical event competition, extra-curricular activities and earn prizes

Few students qualify in GATE and opt for higher studies. Few students are also selected for higher studies abroad

Very good record of placements

Yes, DAC is functional and consists of 4 faculty members including Head. DAC conducts meeting on regular basis and records are maintained

The minutes are recorded. Agenda points include all academic issues like course delivery, lab works, lesson plans, syllabus coverage, mentoring, Assessment and evaluation, organizing seminar, expert talk, etc. Faculties are engaged in researches, few are registered for Ph. D programs. Faculties publish research papers in Journal/ conference with students.

Project Coordinator asks students to fill up the project preferences in a group of 3-4 students in the prescribed proforma. The selection is based on the average CGPA of the group.

Not available, needs high focus.

- Nil

- Course specific exposure to objectives and outcomes
- Faculty members to attend FDP, seminar / conferences, higher education, organizing in-house FDP

Z. VALUE ADDED COURSES OFFERED

AA.

Professor P. K. Ghosh

Professor Subhankar Bhattacharjee

Professor Tapas Kumar Nandi

Professor M. Maiti

Professor R. T. Goswami

Professor Chanchal Dey

- Remedial classes for weaker students; Special tutorials for advanced learners, GATE guidance
- Exposure to real life problems and environments, case study discussion
- Conduct program on domain knowledge, expert lectures by eminent personalities, Soft skill/ preplacement training, Career guidance for higher studies
- NPTEL Course Mentoring
- Facilitates co-curricular and extra-curricular activities
- Alumni interaction / share experiences with present students through special lectures, student's feedback and action taken
- Set up extramural experiments through project work
- Access to online materials in library Career development, Summer training, Domain Knowledge training including Soft Skill, Aptitude are conducted to complement the Value Added Courses. SWOC

Internal Auditor

Internal Auditor

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IQAC Coordinator

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Head, Department of ECE

Director, TINT

External Auditor

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# EXTERNAL ACADEMIC ADMINISTRATIVE AUDIT 2018-19



## **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. Tech					M. Tech						
Academic year	2018-19											
Student Intake	120 9							9				
No. of enrolled student	93 0											
	Ι	II	III	IV	V	VI	VII	VIII	Ι	II	III	IV
No. of Theory courses offered	3	4	6	6	5	6	5	3	5	5	2	0
No. of Practical classes offered	3	4	4	4	5	4	5	3	3	3	2	3

#### **B. FACULTY/STAFF STRENGTH:18**

#### C. STUDENT FACULTY RATIO: 23:1 (B.Tech), 5:1 (M.Tech) D. NO. OF LABORATORIES: 13

E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:									
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	<ul> <li>(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</li> </ul>	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 $\Omega$ (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- 500V (iv) Ammeter 0-10A (v) Wattmeter 5/10A, 150/300/600V	10/01/2007				
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8			Study the performance of wound rotor induction motor under load	<ul> <li>(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</li> </ul>	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	achines Lab -II35Different method of starting of a 3Ø squirrel cage Induction Motor & their comparison (DOL, Auto transformer & star delta) -(i) Induction M (ii) Star- Delta (iii) D-O-L Sta (iv) Auto trans 415/440V (v) Ammeter- (vi) VoltmeterSpeed Control of 3Ø Induction Motor by V.V & V.F (Variable Frequency) Control(i) Induction M (ii) Variac3Ø, (iii) Special ty Micromaster-4 (iv) Ammeter (v) VoltmeterLoad test on wound rotor induction motor to obtain the performance characteristics(i) wound rotor 	Different method of starting of a 3Ø squirrel cage Induction Motor & their comparison (DOL, Auto transformer & star delta) -	<ul> <li>(i) Induction Motor- 3Ø, 415V, 1500rpm, 5A</li> <li>(ii) Star- Delta Starter - 415V, Type-NK1</li> <li>(iii) D-O-L Starter- 5.5KW/7.5HP, 415V, 3Ø, 50Hz</li> <li>(iv) Auto transformer- 166/249/322 V-O/P, 1KV I/P-415/440V</li> <li>(v) Ammeter- 0-10A</li> <li>(vi) Voltmeter- 0-500V</li> </ul>	21/07/2007				
11			<ul> <li>(i) Induction Motor 1HP, 3Ø, 415V Squirrel Cage</li> <li>(ii) Variac3Ø, 0-415V, 2A</li> <li>(iii) Special type frequency controller 0-650HZ, Micromaster-420, I/P-220-240V, O/P-0-I/P voltage</li> <li>(iv) Ammeter0-5A (Panel Type)</li> <li>(v) Voltmeter0-300V (Panel Type)</li> </ul>	21/07/2007					
12			Load test on wound rotor induction motor to obtain the performance characteristics	<ul> <li>(i)wound rotor Induction Motor5 H.P,415 V,1350</li> <li>rpm,stator-7A,Rotor-150 V,14 A (ii)Shunt</li> <li>generator2KW,Va-220v DC,Ia-9.1,Vf-220V,If-0.8</li> <li>(iii)Wound rotor motor starter 3Ph,5HP,415 V,7.2A</li> <li>(iv)1Ø Load box10A,6 step (V)Ammeter0-10A DC</li> </ul>	21/07/2007				

		(vi)Voltmeter DC0-300V (vii) Voltmeter AC0-600V (viii) Regulator0-220V	
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	<ul> <li>(i) Shunt Motor 3HP, 220V, DC (ii) Alternator 2A,</li> <li>1.5KW, 2HP,415V, 50HZ,1500rpm (iii) Ammeter0-</li> <li>10A, AC (iv) Voltmeter0-415V (v) Variac 2.16KVA,</li> <li>I/P-415V, 8A (vi) Rheostat250Ω, 2A</li> </ul>	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	21/07/2007

				(viii) Ammeter(DC)0-5A (ix) Voltmeter(DC)0-300V (x) Ammeter (AC)0-10A	
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	<ul> <li>(i)Synchronous motor(3MVA,415 V)</li> <li>(ii)DC shunt generator(1.5kW,215 V)</li> <li>(iii)ac &amp; dc digital Voltmeter (0-750V)</li> <li>(iv)ac &amp; dc digital Ammeter (0-10A)</li> <li>(v)rpm meter</li> </ul>	07/02/2017
22			Study the performance of induction generator	<ul> <li>(i)Induction generator (3 phase,415 V)</li> <li>(ii)DC shunt motor(5HP,220 V)</li> <li>(iii)ac &amp; dc digital Voltmeter (0-750V)</li> <li>(iv)ac &amp; dc digital Ammeter (0-10A)</li> <li>(v)rpm meter</li> </ul>	07/02/2017
23	Power Electronics & Electric Drive	35	Study of V-I Characteristics of an SCR	<ul> <li>(i) Miliammeter0-200mA</li> <li>(ii) Voltmeter0-200V DC</li> <li>(iii) DC Source0-130V DC</li> <li>(iv) SCR0-15V DC,</li> </ul>	21/07/2007
24			Study of V-I Characteristics of DIAC & TRIAC	<ul> <li>(i) Miliammeter0-200mA (ii) Voltmeter0-200V DC (iii)</li> <li>DC Voltage Source0-130V DC (iv) DIAC0-15V, DC,</li> <li>(v) TRIAC</li> </ul>	21/07/2007
25			Study of different triggering circuit of SCR	<ul> <li>(i) Miliammeter0-200mA (ii) Voltmeter0-200V DC (iii) Resistive load 12V, 5W, AC</li> <li>(iv) AC volt source0-12V, AC</li> <li>(v) SCR</li> </ul>	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 $3\Phi$ 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	poratory	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	<ul> <li>(i) 3Ø energy meter,</li> <li>(ii) 3Ø standard energy meter</li> <li>(iii) Trivector meter,</li> <li>(iv) Voltmeter</li> <li>(v) Ammeter</li> <li>(vi) Digital Time counter</li> </ul>	09/09/2010
41		Wien Bridge	<ul><li>(i) Wien Bridge kit</li><li>(ii) Frequency generator</li></ul>	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	rical 30 g loor 04 Floor 05	Open circuit, short circuit and load test of the transformer; determination of its parameters, efficiency and regulation.	<ul> <li>(i) 1Ø transformer a) 1KVA, 230V/115V, 1Ø, 50HZ air cool b)1KVA,220/55V Shell type</li> <li>(ii) Voltmeter a) 0-300V, 50Hz,Digital Panel Mount type b) 0-750V, AC, I/P- 230V, 50HZ</li> <li>(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</li> <li>(iv) 1Ø Variac a) 1Ø, 0-250V, 10A, Panel Mount type b) Type- 81- CP, Max load-8A, I/P-240V, 50/60Hz(vi)</li> <li>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)</li> <li>0-1-2A, 0-125-250-500V, P.f 0.2, Electrodynamic type (L.P.F)"</li> </ul>	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, 270 $\Omega$ (iv) Ammeter a)0-5A, 50HZ,Digital Panel Mount type b)0-1A, 50-60HZ (v) Voltmeter a)0-500V, 50-60Hz, Digital Panel Mount type b)0-300V, 50-60Hz"	29/11/216
54			Calibration of ammeter and Wattmeter.	(i) Crompton type DC Potentiometer a)Standard sell- 1.0185V, 3 channel, Model-55X-DCA	23/05/2015

			(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) $0.5\Omega/5A$ (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, 250 $\Omega$ "	
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, 125Ω b) 1.2A, 125Ω" "(ii) Choke a) 2A, 240V, AC b) 2A, 230V, AC" "(iii) Capacitor a) 25µF; $\pm$ 5%, 440V, 50HZ b) 25µF; $\pm$ 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-	12/09/2013

				5A, 50HZ, I/P- 230V, AC ,Digital Panel Mount type b) 0-5A, I/P- 230V, AC"	
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	<ul> <li>(i) Carbon lamp a) 16CP, 240V, 50Hz b) 230V, 16</li> <li>C.P.(ii) Tungsten Filament Lamp a) 60W, 240V,</li> <li>50/60Hz b) 230V, 60W" "(iii) Ammeter a) 0-5A, I/P-230V, 50HZ, Digital panel type mount type b) 0-10A,</li> <li>AC-230V, 50HZ" "(iv) Voltmeter a) 0-750V, I/P-230V,</li> <li>50Hz, Digital panel mount type b) 0-750V AC" "(v)</li> <li>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"</li> </ul>		

			"(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	<ul> <li>(i) Voltmeter a) 0-999V, display b)0-999V, display</li> <li>(ii) milliammeter a) 0-999mA, display b) 0-999mA, display</li> <li>(iii) DC voltage source a) 5V &amp; 12V b) 5V &amp; 12V</li> <li>(iv) Resistor Different ranges</li> <li>(v) Ammeter a) 0-10A, 0-2A, Digital Panel Mount type</li> </ul>	
66		Verification of the Maximum Power Transfer Theorem	<ul> <li>(i) Ammeter a) 0-10A, 0-2A, Digital Panel Mount type</li> <li>(ii) Voltmeter a) 0-99.9V, display b) 0-99.9V,</li> <li>display(iii) DC voltage source a) 12V, DC b) 12V,</li> <li>DC(iv) Resistor a) Different ranges b) Different</li> <li>ranges(v) Variable resistor(Pot) a) 0-100Ω b) 0-100Ω"</li> </ul>	
67		Determination of open circuit characteristics of a DC machine	<ul> <li>(i) DC shunt motor a) 2HP, 220V, 1500rpm (ii)</li> <li>Generator a) 1KW, 220V, 4.8A, Shunt type, 1500rpm</li> <li>(iii) Ammeter a) 0-10A, 0-2A, Digital Panel Mount type</li> <li>(iv) Voltmeter a) 0-300V, Digital Panel Mount type (v)</li> <li>Starter (3 point) a) 2HP, 3 Point, 220V, Panel mount (vi)</li> <li>DC source a) 0-220V, 0-10A, for motor control, 0-220V,</li> <li>2A for generator field control (vii) RPM meter a) Digital</li> <li>Panel Mount with proximity sensor</li> </ul>	

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 $\Omega$ / 1A, screw motion type, 200 $\Omega$ / 3A b) 3.3A, 64 $\Omega$ and 0.6A, 1200 $\Omega$ (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.	<ul> <li>(i) Transformer</li> <li>(ii) High voltage transformer oil containerI/P= 230V,</li> <li>O/P= 0-60KV, Power consumption 60KV</li> </ul>	
71			Determination of parameter of 3-Φ transmission line model by power circle diagram	<ul> <li>(i) Variac0-220V (Not Working)</li> <li>(ii) Voltmeter0-500v</li> <li>(iii) Ammeter (0-50A)</li> <li>(iv) Wattmeter0-100W</li> </ul>	
72			Determination of the generalized constants A.B, C, D of long transmission line and regulation of a 3- $\Phi$ transmission line model	<ul> <li>(i).Multifunction load manager.</li> <li>(ii) Variac:0-220V</li> <li>(iii)Voltmeter 0-500V</li> <li>(iv)Ammeter 0-50A</li> <li>(v)Wattmeter 0-100 W</li> </ul>	
73			Study of active and reactive power control of alternators.	<ul> <li>(i) Alternator 1.5KVA, 8.3A, 1500rpm, 440V, 3Ø, p.f=0.8</li> <li>(ii) Motor 2HP, Va=220V, Ia=4.5A, Vf=220V, If=0.8A, 1500rpm</li> <li>(iii) Voltmeter (0-500V)</li> <li>(iv) Ammeter0-2A(3 nos), 0-1A (1 nos)</li> </ul>	

		(v) Variac0-200V, 0-260V	
74	Study of different types of insulator.	<ul> <li>(i) Pin Type</li> <li>(ii) Bushing Type</li> <li>(iii) Disc Type</li> <li>(iv) Suspension Type</li> </ul>	
75	Study of distribution systems by network analyzer.	<ul> <li>(i) Variac(0-110V) 16V</li> <li>(ii) Ammeter0-10A</li> <li>(iii) Voltmeter0-500V</li> <li>(iv) WattmeterDigital</li> </ul>	
76	Panel mounted Over Current relay with Ammeter(0-50A),	<ul><li>(i)CT (5A secondary),</li><li>(ii)Transformer (1KVA),</li><li>(iii)Timer and Rheostat</li></ul>	
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	rer System-II oratory 35	Parallel operation of 3Ø Transformers	<ul> <li>(i) 3Ø Transformer 3Ø, 2KVA, Delta/Star, 400V/230V</li> <li>(ii) Ammeter 0-5A(6 No.) 0-15A(3No.),</li> <li>(iii) Voltmeter 0-500V (2No), 0-300V (2No.)</li> </ul>	
83			Study of different protection schemes for feeders.	<ul> <li>(i) Overload Protection IDMT Relay [1],</li> <li>(ii) Earth Fault Protection, Neutral displacement Relay [1]</li> <li>(iii) Differential Protection,</li> <li>(iv) Single Phasing/ Two Phasing Protection Relay [1],</li> <li>(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</li> </ul>	
84			Study of different transformer protection schemes.	<ul> <li>(i) Merz price Protection IDMT Relay [1], (ii)</li> <li>Overcurrent Protection, (iii) Unbalanced protection</li> <li>Negative Sequence Relay [1], Overvoltage Relay [1],</li> <li>Transformer 2kv, 230V/115 1 phase, Load 0-10A,</li> <li>resistive load, Fault creator, Digital ammeter panel</li> <li>mount 10A [5], Different fault simulator, Digital time</li> <li>counter, Aux voltage source</li> </ul>	
85		Synchronizing multiple 3 phase alternators with power grid.	<ul> <li>(i) DC shunt motor [2] 7.5HP, 440V, 15A, 1500rpm,</li> <li>(ii) 3Ø alternator [2] 3KVA, 415V, 1500 rpm, 0.8 P.f,</li> <li>(iii) 3 Point Starter [2],</li> <li>(iv) Ammeter [8] 0-5A (3No.), 0-20A(3 No.), 0-2A (2 No.),</li> <li>(v) Voltmeter [6] 0-500V</li> </ul>		
86		To study the operations of physical shifting transformer cum indu- regulator.	To study the operations of phase shifting transformer cum induction regulator.	<ul> <li>(i) Induction Regulator 1KVA, 50HZ, 3Ø, I/P=400V,</li> <li>O/P= 0-600V,</li> <li>(ii) Digital Ammeter</li> <li>(iii) Voltmeter</li> <li>(iv) 3Ø variac 3Ø, 400V AC</li> </ul>	

87	Different types of electromechanical Relay	<ul> <li>(i) Non directional over current relay[1] CDD21PFG001S(M),</li> <li>(ii) Over current relay [1] CDG11EG100SB,</li> <li>(iii) Over voltage relay [1] VDG11AF0015BCH,</li> <li>(iv) Over voltage relay (Instantaneous) VAGM22F71C,</li> <li>(v) Earth fault relay [1] VAGN22AF171G,</li> <li>(vi) Earth fault relay (instantaneous) [1]</li> <li>CDG21EG114ZR,</li> <li>(vii) Under frequency relay [1] ATG11PF8001A,</li> <li>(viii) Over frequency relay [1] DG13AF9101A,</li> <li>(ix) Reverse power relay [1] CCUM31PF3A,</li> <li>(x) Negative seq relay [1] 31107122,</li> <li>(xi) Percentage bias differential relay [1]</li> <li>DDT12EG131A,</li> <li>(xii) Directional over current relay [1]</li> <li>CCD21PFG001S(M),</li> <li>(xiii) Pilot relay [1] SPECM2YF192A,</li> <li>(xiv) Time delay relay [1] VTT11ZG8041L(M)</li> </ul>	
88	No load characteristics of DC shunt generator	<ul> <li>(i) DC shunt motor [1] 2HP, 220V, 1500rpm,</li> <li>(ii) DC shunt generator[1] 1KW, 220V, 1500 rpm,</li> <li>(iii) DC Ammeter [2] 0-5A, 0-1A,</li> <li>(iv) DC Voltmeter [2] 0-300V,</li> <li>(v) 3 Point Starter[1] 220V DC, 0.5HP,</li> <li>(vi) Rheostat [2] 1KΩ/0.75A, 100KΩ/3A</li> </ul>	
89	Speed control of DC shunt motor by armature voltage control	<ul> <li>(i) DC shunt motor [1] 1HP, 220V, 2.5A, 1500rpm</li> <li>(ii) DC Ammeter [2] 0-2A, 0-1A,</li> <li>(iii) DC Voltmeter [1] 0-300V,</li> <li>(iv) Starter[1] 1HP,</li> <li>(v) Rheostat [2] 489Ω,</li> <li>(vi) RPM meter [1] 0-9999 rpm</li> </ul>	
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 design and	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 – $\Phi$ 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:

Sl. No.	Name of ICT tool used	Description
1	Projectors	Used for classroom teaching by few faculties. It was extensively used in seminar and project presentations of students.
2	Videos/video links	Some videos/video links are given to students to enrich their knowledge.
3	MATLAB software	MATLAB-20 users- version 2017a was used in Control System Laboratory for simulation based studies of B.Tech students having a batch size of 136. Moreover, most of the final year simulation based projects were carried out using this software. Additionally, faculties used this software for their research needs.
4	ETAP software	ETAP 16 user software was used in Power System Laboratory-I for simulation based studies of B.Tech students having a batch size of 136. Additionally, the final year students who performed their power system based projects, also used this software. Faculties also used this as and when required.

5	LAN connection with Desktop in Project Laboratory	Used for searching the web for conducting literature survey related to final year project work.
6	MS office	For preparing reports related to projects by the students. For preparing official documents by faculties and staffs of the college
7	MOODLE open source learning platform	Used for facilitating the students with course materials and assignments.
8	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.

# G. FACULTY DETAILS

S.No	Name of the Faculty Member	Highest Qualifi cation With Special ization	Exper ience (Year s)	Roles & Responsibilities	Designation	Date of Joining
1.	Prof Dr Milan.Basu	Ph.D.	32	Teaching, mentoring, Member of various committees	Professor	7/01/2009
2.	Prof.Dipanwita Ganguly	M.E.\ M.Tech	13	Teaching, mentoring, Member of various committees	Assistant Professor	24/08/05
3.	Prof. Sushma Verma	M.E.\ M.Tech	18	Teaching, mentoring, Member of various committees	Assistant Professor	1/07/2009
4.	Prof. Satabdi Chatterjee	M.E.\ M.Tech	11	Teaching, mentoring, Member of various committees	Assistant Professor	05/07/2007
5.	Prof. Debashish Biswas	M.E.\ M.Tech	10	Teaching, mentoring, Member of various committees	Assistant Professor	28/01/2008

6.	Prof. Ayindrila Roy	M.E.\ M.Tech	12	Teaching, mentoring, Member of various committees	Assistant Professor	13/9/2007
7.	Prof. Debarchita. Mishra	M.E.\ M.Tech	12	Teaching, mentoring, Member of various committees	Assistant Professor	18/8/2010
8.	Prof. Arabindo. Chandra	M.E.∖ M.Tech	8	Teaching, mentoring, Member of various committees	Assistant Professor	01/10/2010
9	Prof.Saikat.Nath	M.E.∖ M.Tech	4	Teaching, mentoring, Member of various committees	Assistant Professor	15/07/2014
10	Prof. Debaparna .Sengupta	M.E.\ M.Tech	9	Teaching, mentoring, Member of various committees	Assistant Professor	08/08/2013
11	Prof. Dr. Syamasree Biswas Raha	Ph.D	9	Teaching, mentoring, Member of various committees	Assistant Professor	01/07/2016
12	Prof.Rajat Kumar Mondal	M.E.∖ M.Tech	9.5	Teaching, mentoring, Member of various committees	Assistant Professor	22/8/16
13	Prof.Swarnali Jhampati	M.E.\ M.Tech	0	Teaching, mentoring, Member of various committees	Assistant Professor	2/2/2017
14	Prof.Birendra Krishna Ghosh	M.E.\ M.Tech	12.5	Teaching, mentoring, Member of various committees	Assistant Professor	10/7/2017
15	Prof.Monalisa Datta	M.E.\ M.Tech	1	Teaching, mentoring, Member of various committees	Assistant Professor	10/7/2017
16	Prof. Mainak Biswas	M.E.\ M.Tech	1	Teaching, mentoring, Member of various committees	Assistant Professor	19/7/2017
17.	Prof.Monalisa Das	M.E.\ M.Tech	1	Teaching, mentoring, Member of various committees	Assistant Professor	9/10/2018
18.	Prof Ayantani Bhattacharya	M.E.\ M.Tech	1	Teaching, mentoring, Member of various committees	Assistant Professor	27/08/2018

# 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	3	3	2 4		
6th	7	7			
7th	11	11	6		
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		From Other Dept			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							15	1	3
2ND YEAR	9	5THEORY +3LAB	24	21	7THEORY 31 +5LAB		6	1T	3
3RD YEAR	16	6THEORY +7LAB	38	15	5THEORY +2LAB	18			
4TH YEAR	16	6THEORY +7LAB	41	6	2THEORY +1LAB	7			
M.Tech 1ST YEAR	4	9 Theory+4 LAB	48	1	1 Theory	4			
M.Tech 2ND YEAR	4	2 Theory+D issertatio n+session al	48	0	0	0			

### J. WORKLOAD DETAILS:

S. No	Name of the faculty member	Name(s) of the Theory/Lab	No. of Courses		No. of No. Courses Perior		Credits	Work Load	Completion Status
			Т	Р	Т	Р			
1.	Prof Dr Milan.Basu	Electrical Machine-I Electric Machine-II Power System-I Basic Electrical Engineering project Seminar	6	12	6	23	25	33	100%
2.	Prof.Dipanwita Ganguly	Basic Electrical Engineering Electric Circuit Theory Power Electronics Seminar Project Non Conventional Energy Electrical & Electronic measurement Sensors & Transducer WORKSHOP Project-II	4	8	11	38	32	49	100%
3.	Prof. Sushma Verma	Basic Electrical Engineering Power System-I	4	8	14	31	32	45	100%

		Power Generation Economics Seminar Workshop Project GATE Non Conventional Energy Power System-II WORKSHOP Project-II							
4.	Prof. Satabdi Chatterjee	Electric Machine-II Electric Drives Workshop Seminar Project Electrical Machine-I E learning mentoring Project-II	4	7	10	33	27	44	100%
5.	Prof. Debashish Biswas	Basic Electrical Engineering Control System- I Workshop GATE Project Seminar Advanced Control System CONTROL SYSTEM-II Microprocessor and Microcontroller Project-II	3	7	10	32	28	42	100%
6.	Prof. Ayindrila Roy	Basic Electrical Engineering Electric Circuit Theory Power Electronics Workshop	4	7	12	34	30	46	100%

		Project Seminar Microprocessor and Microcontroller WORKSHOP Project-II							
7.	Prof. Debarchita. Mishra	Sensors & Transducer WORKSHOP Project-II Basic Electrical Engineering Field theory Seminar Workshop Control system II Project	8	7	12	33	25	45	100%
8.	Prof. Arabindo. Chandra	Basic Electrical Engineering Electric Machine-II Seminar Workshop Project Electrical Machine-I Project-II E LEARNING	3	6	14	34	30	48	100%
9.	Prof. Saikat.Nath	Basic Electrical Engineering Power system-III Workshop Electrical System Design-I Project Seminar Electrical & Electronic measurement WORKSHOP Project-II	5	7	12	33	28	45	100%

10	Prof. Debaparna .Sengupta	Electrical & Electronic measurement WORKSHOP Project-II Basic Electrical Engineering Field theory Workshop Seminar Non-Conventional Energy Project	4	6	11	35	28	46	100%
11	Prof. Dr. Syamasree Biswas Raha	Power System-II Hvdc transmission Power Electronics Workshop Seminar Project Power System-II Project-II	4	8	9	37	30	46	100%
12	Prof.Rajat Kumar Mondal	Basic Electrical Engineering Electric Drives Workshop Project Seminar Control System-I Control System-II Illumination WORKSHOP Electric System Design-II Project-II	6	8	8	37	28	45	100%
13	Prof. Swarnali Jhampati	Basic Electrical Engineering Electric Circuit Theory Workshop Project Seminar	4	7	11	35	30	46	100%

		Sensors & Transducer UTILIZATION OF ELECTRIC POWER WORKSHOP Project-II							
14	Prof. Birendra Krishna Ghosh	Basic Electrical Engineering Electric Drives Workshop DIGITAL SIGNAL PROCESSING Project Seminar Electrical System Design- II WORKSHOP Project-II	4	7	12	33	30	45	100%
15	Prof.Monalisa Datta	Basic Electrical Engineering Control System-I Control System-II Workshop Project Non conventional energy Seminar illumination WORKSHOP Project-II	4	6	13	38	32	51	100%
16	Prof.Mainak Biswas	Basic Electrical Engineering Non- Conventional Energy Workshop Seminar Project Microprocessor and Microcontroller DIGITAL SIGNAL PROCESSING WORKSHOP Project-II	4	7	12	34	30	46	100%

17	Prof. Ayantani Bhattacharya	Basic Electrical Engineering Seminar Project Project-II Control system ii HVDC WORKSHOP ELearning	3	7	6	29	24	35	100%
18	Prof. Monalisa Das	Basic Electrical Engineering Seminar Non conventional energy Aptitude illumination Project Project-II	3	5	7	27	20	34	100%

# **\*\*** Add additional sheet if necessary

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

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	01	0	03	02	04	04	04	02	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)	01	0	03	02	04	04	04	02	20

No. of courses for which the Lesson Plans are modified after verification	0	0	03	02	0	0	0	0	05
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 mentoring sessions	Remark
1.	Prof.Satabdi Chatterjee	18701614001-35	35	22	4 Remedial classes conducted
2.	Prof.Debasish biswas	36-71	35	23	Remedial and Doubt clearing classes conducted along with Mentoring classes
3.	Prof.(Dr.) Syamasree Biswas Raha	71-100	35	22	Remedial classes and doubt clearing sessions
5.	Prof.Monalisa Datta	18701616048-71	23	23	Remedial and Doubt clearing classes conducted along with Mentoring classes
6.	Prof.Sushma Verma	72-94	23	22	Remedial and Doubt clearing classes conducted along with Mentoring classes
7.	Prof.Birendra krishna Ghosh	118-139	23	23	Remedial and Doubt clearing classes conducted along with Mentoring classes

8	Prof.Arabbindo Chandra	617001-144	23	23	Remedial and Doubt clearing classes conducted along with Mentoring classes
9	Prof.Ayindrila Roy	18701616095-117	23		Remedial and Doubt clearing classes conducted along with Mentoring classes
10	Prof.Dipwanita Ganguly	18701615001-30	23		Remedial and Doubt clearing classes conducted along with Mentoring classes
11.	Prof.Debaparna Sengupta	61-90	29		Remedial and Doubt clearing classes conducted along with Mentoring classes
12.	Prof.Rajat kumar Mondal	31-60	29		Remedial and Doubt clearing classes conducted along with Mentoring classes
13.	Prof.Debarchita Mishra	91-100	29		Mental wellbeing sessions conducted

Sl. No.	Faculty Name	Cell/ Committee/ Club
1	Prof. Satabdi Chatterjee	Disciplinary Committee, internal complaint committee, cultural committee
2	Prof. Debasish Biswas	Exam cell, anti-ragging committee
3	Prof. Arabindo Chandra	Science & tech club, Film club
4	Prof. Debarchita Mishra	Anti-ragging committee
5	Biplab Saha	Admission cell, Students registration,
6	Bibhuti Sarkar	Admission cell, Students registration, Electrical maintenance supervisor

#### M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

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

	Total number	Duration	International/National / State/University/Inter College/ Intra College	Total no of participat ion
Expert Talk	-	-	-	-
FDP	1	5 Days	University	22
Seminar	1	One day	Intra College	75
Workshop	-	-	-	-

Conference	-	-	-	-

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

	Total number	Duration	International/National / State/University/Inter College/ Intra College	Total no of participat io n
Expert Talk	1	5 days	National	-
FDP	7	5 days	Intra college	-
Seminar	-	-	-	-
Workshop	-	-	-	-
Conference	-	-	-	-

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

SI. No.	Event Description	Organized by	Student Name	Faculty Name	International/National/State/University/Inter College/ Intra College
1	Electromagnetic Theory	NPTEL: IIT	Anish Kumar		NATIONAL
2	Electromagnetic Theory Elite		Ashutosh Kumar		
3	Electromagnetic Theory		Kailash Vishwakarma		

Electromagnetic Theory Elite			
Electromagnetic Theory Elite			
Electromagnetic Theory			
Control Engineering			
Control Engineering Elite			
An Introduction to Coding Theory			
An Introduction to Coding Theory			
An Introduction to Coding Theory			
An Introduction to Coding Theory			
Power System Engineering			
Power System Engineering			

Debaparna Sengupta	
Satyam Kumar	
Rohit Ravi	
Binayak Dey	
Sourav Chatterjee	
Abhishek Raj	
Maynak Das	
Pratanu Santra	
Shubhadip Saha	
Chiranjib Dey	
Anik Kumar De	
Amin Siddique	
Tuhin Debnath	
Nisha Kumari	
Souradeep Roy	
Nishi Perween	
Vivek Kumar Jha	
Arun Prakash Roy	
Abhishek Raj	
Anjali Singh	

Power System Engineering
Power System Engineering
Power System Engineering
Power System Engineering
Power System Engineering Elite+Silver
Power System Engineering
Power System Engineering Elite
Power System Engineering
Power System Engineering
Power System Engineering
Power System Engineering Elite
Power System Engineering
Power System Engineering Elite
Power System Engineering

Poulomi Dutta	
Neha Acharjee	
Rahul Sarkar	
Mohammad Abu Taher	
Jahez Ahamed	
Bidesh Bisal	
Dipayan Ghosh	
Hena Dhawa	
K. Gaurav Rao	
Indranil Paul	
Sayan Chatterjee	
Ashutosh Jha	
Ajit Kumar	
Krishnendu Haldar	
Ankita Mandal	
Bishwajit Mishra	
Mohabbat Ali	
Sabyasachi Mitra	
Santanu Chakraborty	
Shreya Prasad	
	Poulomi DuttaNeha AcharjeeRahul SarkarMohammad Abu TaherJahez AhamedBidesh BisalDipayan GhoshHena DhawaK. Gaurav RaoIndranil PaulSayan ChatterjeeAshutosh JhaAjit KumarKrishnendu HaldarBishwajit MishraMohabbat AliSantanu ChakrabortyShreya Prasad

44	Power System Engineering
45	Power System Engineering
46	Power System Engineering
47	Power System Engineering
48	Power System Engineering
49	Power System Engineering
50	Power System Engineering Elite
51	Power System Engineering
52	Power System Engineering
53	Power System Engineering Elite
54	Power System Engineering
55	Power System Engineering
56	Power System Engineering
57	Power System Engineering
58	Power System Engineering Elite
59	Basic Electronics Elite
60	Basic Electronics
61	Basic Electronics Elite
62	MATLAB Programming for Numerical Computation Elite

Rounak Das	
Swastika Kumari	
Suchita Singh	
Shubhadip Saha	
Md Tanzeer Alam	
Pratanu Santra	
Kumar Abhishek	
Bhaskar Kumar	
Shilajeet Chakraborty	
Pritam Das	
Sambit Saha	
Sayantan Mandal	
Rahul Bhowmick	
Antarlina Roy	
Amin Siddique	
Shreya Datta	
Dhrubajyoti Sinharay	
Satyam Kumar	
Subhapriyo Joarder	

63	Enhancing Soft Skills and Personality Elite
64	Brief Introduction to Psychology
65	Switching Circuits and Logic Design Elite
66	Introduction to Programming in C Elite
67	Introduction to Programming in C
68	Introduction to Programming in C
69	Programming, Data Structures and Algorithms using Python
70	Programming, Data Structures and Algorithms using Python
71	Data Base Management Systems
72	Cloud Computing
73	Fundamentals of Electrical Engineering
74	Fundamentals of Electrical Engineering
75	Fundamentals of Electrical Engineering Elite
76	Fundamentals of Electrical Engineering Elite
77	Fundamentals of Electrical Engineering
78	Fundamentals of Electrical Engineering
79	Fundamentals of Electrical Engineering
80	Fundamentals of Electrical Engineering

Sayan Chatterjee	
Avishek Ganguly	
Priyodeep Mukhopadhyay	
Utshab Kar	
Ishika Kumari	
Vinit Sinha	
Soutik Saha	
Tirtharaj Roy	
Poulomi Dutta	
Avijit Das	
Kuldeep Ghosh	
Debanjan Paul	
Mrinmoy Mukherjee	
Binayak Dey	
Joysurjya Bera	
Boloy Nag	
Kumar Gourab Ghosh	
Kausik Porey	

81	Fundamentals of Electrical Engineering
82	Fundamentals of Electrical Engineering Elite
83	Fundamentals of Electrical Engineering
84	Fundamentals of Electrical Engineering
85	Fundamentals of Electrical Engineering
86	Fundamentals of Electrical Engineering
87	Fundamentals of Electrical Engineering
88	Power system analysis
89	Power system analysis
90	Power system analysis
91	Power system analysis Elite
92	Power system analysis
93	Power system analysis
94	Power system analysis
95	Power system analysis Elite
96	Power system analysis
97	Power system analysis
98	Power system analysis Elite
99	Power system analysis
10	Power system analysis

Dhrubajyoti Samui		
Dilip Mallick		
Soumyadip Mandal		
Kumar Rajnish Anand		
Nidhi Kumari		
Koushik Bal		
Balaram Ghosh		
Avishek Ganguly		
Soumya Shekhar		
Rajneesh Kumar		
Ashutosh Kumar		
Md.Aabshar Alam		
Mulk Raj Anand		
Shailly Megha		
Damini Sinha		
Soham Bhadra		
Sourav Das		
Swastika Kumari		
Rohan Saha Poddar		
Trisha Dawn		
Power system analysis		
-----------------------------		
Power system analysis Elite		
Power system analysis Elite		
Power system analysis		
Power system analysis Elite		
Power system analysis		

Prabhash Kumar
Tuhin Debnath
Vikash Kumar Ekka
Souvik Mondal
Souvik Ghosh
Shreya Deb
Sourav Chatterjee
Sayantika Sengupta
Kajal Jha
Priyanka Dey
Rohit Burnwal
Aritra Chatterjee
Sagnik Mukherjee
Sounak Das
Neloy Mukherjee
Rohit Ravi
Rahul Jaiswal
Nitish Kumar Jha
Saswato Seal
Argha Samanta

121	Basic electrical circuits
122	Control Engineering
123	Digital Circuits Elite
124	Digital Circuits
125	Digital Circuits Elite
126	Digital Circuits Elite
127	Digital Circuits
128	Digital Circuits Elite+Silver
129	Digital Circuits Elite
130	Digital Circuits
131	Digital Circuits Elite
132	Digital Circuits
133	Digital Circuits
134	Digital Circuits Elite
135	Digital Circuits Elite
136	Digital Circuits Elite
137	Digital Image Processing
138	Digital Image Processing Elite
139	Digital Image Processing
140	Digital Image Processing

А	rijeet Pal	
А	yan Paul	
N	Ianish Kumar Singh	
S	ubha Saha	
S	ubhadeep Sen	
S	warup Pramanik	
D	Deep Mukherjee	
N	Iohak Mishra	
R	ounak Kumar Paul	
А	nkita Bhuin	
R	ahul Kumar	
P	rabhash Kumar	
V	ikash Kumar Ekka	
Н	lena Dhawa	
К	Lumar Abhishek	
Jo	oysurjya Bera	
S	ounak Das	
N	leloy Mukherjee	
P	oulomi Dutta	
N	leha Acharjee	

141	Digital Image Processing
142	Digital Image Processing
143	Digital Image Processing Elite
144	Digital Image Processing
145	Digital Image Processing
145	Digital Image Processing
146	Digital Image Processing
147	Control systems Elite+Silver
148	Control systems
149	Introduction to Smart Grid
150	Introduction to Smart Grid
151	Introduction to Smart Grid
152	Introduction to Smart Grid
153	Introduction to Smart Grid Elite
154	Non-Conventional Energy Resources Elite
155	Non-Conventional Energy Resources Elite+Silver
`156	Technical english for engineers Elite+Silver
157	Technical english for engineers Elite
158	Technical english for engineers Elite

Tanmoy Das	
Chayan Mondal	
Debalaksha Saha	
Bidesh Bisal	
Dipayan Ghosh	
Subhamay Poddar	
Bikash Debnath	
Satyam Kumar	
Nitish Kumar Jha	
Pallabi Sarkar	
Syamantak Kundu	
Shamik Konar	
Krishnendu Haldar	
Dr. Syamasree Biswas Raha	
Sayan Chatterjee	
Sayantan Mandal	
Sayan Chatterjee	
Sayantan Mandal	
Poulomi Dutta	

159	English Language for Competitive Exams Elite
160	Soft skills Elite
161	Soft skills Elite
162	Soft skills
163	Soft skills
164	Soft skills Elite
165	Soft skills Elite+Silver
166	Soft skills
167	Soft skills
168	Soft skills
169	Soft skills
170	Soft skills Elite+Silver
171	Soft skills Elite+Silver
172	Soft skills Elite+Silver
173	Soft skills
174	Soft skills
175	Soft skills Elite
176	Soft skills Elite+Silver
177	Soft skills
178	Soft skills Elite

Maynak Das	
Suraj Pratap	
Niraj Kumar	
Aditya Mukherjee	
Priya Deb Nath	
Priyanka Karar	
Shrincha Rani	
Arunima Ghosh	
Anuska Ghosh	
Priyajit Mitra	
Sourav Karmakar	
Souvik Biswas	
Debsankar Pal	
Arkaprabha Roy	
Jinia Parvin	
Nikita	
Rishav Raj	
Shalini Dutta	
Rahul Ghosh	
Srijani Chatterjee	

179	Soft skills
180	Soft skills
181	Soft skills
182	Soft skills
183	Soft skills
184	Soft skills Elite
185	Soft skills
186	Soft skills
187	Soft skills
188	Soft skills
189.	Soft skills Elite
190.	Soft skills Elite
191.	Soft skills Elite
192.	Soft skills
193.	Soft skills Elite
194.	Soft skills Elite+Silver
195.	Soft skills
196.	Soft skills Elite
197.	Soft skills
198.	Soft skills

Dipanwita Dutta	
Sohan Das	
Ishani Jana	
Baishakhi Chakraborty	
Arnab Ghosh	
Tamal Maji	
Ashutosh Hariom	
Suman Kumar Bit	
Udit Narayan	
Anish Kundu	
Aditya Kumar	
Rushali Dhar	
Kazi Roshtam Ali	
Akash Maity	
Jaita Kapuria	
Vinayak Upadhyay	
Aditya Basak	
Ratneswar Ghosh	
Rahul Lohar	
Somtirtha Basu	

199.	Soft skills Elite	Daipayan Chowdhury		
200.	Soft skills Elite	Nilanjan Dua		
201.	Soft skills Elite	Moitri Chakraborty		
202.	Developing Soft Skills and Personality Elite	Shalini Mishra		
203.	Developing Soft Skills and Personality Elite+gold	Shadab Ahmed		
204.	Developing Soft Skills and Personality	Poulomi Dutta		

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

	1. Chiranjib Dey		CU	M.TECH
	2. Madhusree Mondal		US (Illinois Institute of Technology), Chicago	MS
	3. Mohabbat Ali	B-Tech in Electrical Engineering	ALIAH UNIVERSITY	M.TECH
	4. Parmita Mondal		US (Illinois Institute of Technology), Chicago	MS
2018-19	5. Kaustav Chakraverty		VIT	M-TECH
	6. Debjyoti Karmakar		PCMRD	MBA
	7. Shubhradeep Mandal		National Board of Computer Education	Diploma in Application and Management
	8. Saruk Chand Sk		Acharya Institutes	MBA
	9. Prasanta Naskar		IIM Nagpur	MBA

**R. NO. OF STUDENTS PLACED**: Total 45 No. of students were placed.

S.	DEPT.	ACADEMIC	COMMITTEE	(DAC)

Sl. No.	Name	Designation
1	Prof. (Dr.) Milan Basu	HoD, EE
2	Dr. Syamasree Biswas Raha	Assistant Professor, EE
3	Prof. Satabdi Chatterjee	Assistant Professor, EE
4	Prof. Debashish Biswas	Assistant Professor, EE
5	Prof. Ayindrila Roy	Assistant Professor, EE
6	Prof. Arabindo Chandra	Assistant Professor, EE
7	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.	JOURNAL		BOOK	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI		BUUK	
Faculty only	13	1	2	-	-	16
Student-Faculty	6	-	-	-	-	6

#### **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.
NO OF PROJECT GROUPS	33
NO OF PROJECT PROGRESS REPORTS SUBMITTED	33 group considering 8th sem

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. Well-documented student project activity with rubric-based evaluation
- 2. Initiatives for bridging the industry-academia gap through activities with industry professionals
- 3. Students are encouraged to publish in different conferences and journals with partial funding
- 4. Training facilities in domain knowledge, soft skills to improve employability of students
- 5. Mentoring system to boost up student confidence for holistic development

#### 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.	Computer fundamental installation and maintenance	30 hrs.	88	82	Satisfactory
2.	Statistical analysis using python	30 hrs.	131	128	Satisfactory
	Total	30*2=60			

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.	Domain Knowledge Training EE-1, EE-2 (1st to 2nd sem)	15*2	139	130	Domestic and Industrial Wiring- Design, Estimation & Installation	

2018-19

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#### AA. SWOC ANALYSIS:

SWOC	ANALYSIS					
STRENGTH:	<ol> <li>The college is situated in a key area of a megacity and is well connected geographically</li> <li>Conducive environment for academic practice.</li> <li>Conduction of outreach programs like blood donation camps and "Srijani" (platform of creative activities)</li> <li>Overall growth and wellbeing of students through an effective mentorship structure</li> <li>Adequate student to faculty ratio</li> </ol>					
WEAKNESS:	<ol> <li>Government grants for research are yet to be materialised.</li> <li>Involvement of stakeholders in a structured way</li> <li>Core companies are yet to show more interest in campusing</li> </ol>					
OPPORTUNITIES:	<ol> <li>Presence of several enthusiastic faculty members and students eager to participate in research works to upgrade their knowledge</li> <li>Internship opportunities for maximum number of students in core companies</li> </ol>					
CHALLENGES:	<ol> <li>Accreditation from national agencies are yet to be attained</li> <li>Focused efforts for bulk recruitment of students by core companies are KUMAR BARDARE CONSTRUCTION OF CONSTRUCTIONS</li> </ol>					
nts of the auditor: V	al Auditors Name & Signature of the IQAC Coordinator OKOlkata Name & Signature of the IQAC Coordinator					

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# **Techno International New Town**

# Department of Electrical Engineering

Enclosure of Academic Audit Assessment Report for the Noar (3 yrs) 2016-17, 2017-18, 2018-19				
rear (5	Remark			
Clause No.	Satisfactory			
В	Satisfactory			
<u> </u>	Good			
D	Cood			
E	Good			
F	Satisfactory			
G	Good			
Н	Good			
1	Satisfactory			
J	As per norms			
К	Document maintained properly			
L	Good			
М	Good			
N	Ok			
0	Need improvement			
Р	Good			
0	Encouraging			
R	Good			
S	Good			
<u>T</u>	Maintained properly			
U	Needs improvement			
V	Good			
W	Needs serious improvement			
Х	Needs serious improvement			
Y	Good			
Z	Good			
AA	Good			

	Nama	Designation	Affiliation	Signature
External Auditor	Prof. Ranjit Kr. Barai	Professor	Jadavpur University	000
Internal	Ayindrila Roy	Asst. Professor	TINT	8216/2/19
Internal	Dr. Syamasree	Asst.	TINT	SBR 16.2.19
Auditor	Biswas Raha	Professor	TINT	0
IQAC	Dr. Tapas	Asso.	TINI	21 0 16.2.19
Coordinator	Kumar Nandi	Professor		10
HOD	Prof.(Dr.)	Professor &	TINT	TX . C.
	Milan Basu	HOD		1010
Director	Dr. R.T.	Director	TINT	(fairmig2p19)
	Goswami			
				$\sim$ ()

#### EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT



## **TECHNO INTERNATIONAL NEW TOWN**

## **Department of Information Technology**

#### A. DEPARTMENT DETAILS

Name of Department:	Inform	nation	Techn	ology	1			
Name of Programme:	B. Tech							
Academic year	2018	2018-19						
Student Intake	60X4	1=240	)					
No. of enrolled student								
	Year Regular Lateral Stream Total Change					Total		
	1 <sup>st</sup>		55 (		)	0		55
	2 <sup>nd</sup>		55 0		0		55	
	3 <sup>rd</sup>		55		D	0		55
	4 <sup>th</sup>		62		)	0		62
							Total	227
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	5	5	6	5	5	6	5	3
No. of Practical classes offered	4	4	4	5	4	4	6	3

#### **B. FACULTY/STAFF STRENGTH : 11**

#### C. STUDENT FACULTY RATIO: 16:1

#### **D. NO. OF LABORATORIES: 3**

#### E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

Sl. No.	Lab Name	No. of accomm odation	Equipment	Specification	Last Upgraded
1	Programming Practice	30	Computer(30)	1. Intel Dual	June, 2017
	Lab(R No-516)		2. NW switch(2)	core CPU	

	Subjects 1.Basic Computation & Principles of Computer Programming lab 2.Data Structure & Algorithm 3.Numerical Methods 4.Object oriented programming & UML 5.Algorithm Lab 6.programming Practices using C++		3. Projector(1) 4. UPS(1)	3.0GHz,2 GB RAM,500 GB HDD, 2. 24 port D link network switch 3. EPSON EB-S9 4. Greenline 10 KvA UPS with 20 12v 26ah battery	
2	Advanced Computing Lab(R No517) Subjects- 1.Software Tools Lab 2.Computer Architecture 3.Operating System Lab 4.Data Base Management System Lab 5.Computer Networking 6.Software Engineering	30	Computer(30) 2. NW switch(2) 3. Projector(1) 4. UPS(1)	<ol> <li>Intel Dual core CPU</li> <li>OGHz,2 GB</li> <li>RAM,500 GB</li> <li>HDD,</li> <li>24 port D link</li> <li>network switch</li> <li>EPSON EB-S9</li> <li>Kirloskar</li> <li>10KvA UPS with</li> <li>20 12V 26Ah</li> <li>exide battery</li> </ol>	June, 2017
3	Advanced computing II and Project Lab(R No.505) Subjects 1.Internet Technology 2.Multimedia 3.E-Commerce lab 4.Project I 5.Project II	30	Computer(28) 2. NW switch(2)	Intel Dual core CPU 3.0GHz,2 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	June, 2017

#### **F. DETAILS OF ICT TOOLS:**

SI No.	Item	Specification
1	Projector	EPSON EB-S9
2	Wi-Fi	100Mbps
3	NPTEL Course	NA
4	LAN	100 Mbps

#### **G. FACULTY DETAILS**

	Name of the	Highest	Experien	Roles &	Designation	Date of
S.No	Faculty	Qualification	ce	Responsibilit		Joinin
	Member	With	(Years)	ies		g
		Specialization				
1.	Mr. Ayan Chakraborty	M.Tech	13+	HoD, Academic	Assistant	09/08/2007
				Committee,	Professor	
				NAAC		

				Coordinator,		
2.	Mr. Anjan Dutta	M.Tech	2+	Sports Committee	Assistant Professor	25/7/2017
3.	Mr. Ananjan Maiti	M.Tech	2+	Cultural Fest committee	Assistant Professor	15/3/2017
4.	Mr. Sourav Mahapatra	M.Tech	13+	Cultural Fest committee, Exam cell, DAC	Assistant Professor	09/08/2007
5.	Ms. Sanjukta Bhattacharya	M.Tech	8+	Admission Cell	Assistant Professor	10/07/2012
6.	Dr. Suman Bhattacharyya	Ph.D.	11+	Routine committee, Anti- ragging Committee, Cultural Committee, DAC	Assistant Professor	01/01/2010
7.	Mrs. Mahamuda Sultana	M.Tech	5+	Sports Committee, Anti-Ragging Committee	Assistant Professor	25/1/2016
8.	Dr. Nilanjan Dey	Ph.D.	5+	Placement Cell	Assistant Professor	27/8/2015
9.	Mr. Raja Karmakar	M.Tech	9+	Placement cell, Anti-Sexual Harassment Committee, DAC	Assistant Professor	19/7/2010
10.	Mr. Ankujyoti Das	M.Tech	3+	Routine Committee	Assistant Professor	13/1/2015
11.	Mr. Suchibrota Dutta	M.Tech	3+	Library activity	Assistant Professor	10/2/2015

#### H. CHOICE BASED ELECTIVE COURSE

Seme ster	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	Th-6, Lab-6	3	1		
6	8	4	3		
7	Th-13, Lab-3	8	3		
8	12	6	3		

#### I. COURSE DELIVERY:

Voar/So		From (	Core		From C	)ther	To Other		
mester	Dept				Dept		Dept		
Theory	No.	No.	Crod	No.	No.	Crodi	No.	No.	Crodi
& Labs)	of	of	its	of	of	ts	of	of	ts
-	Facul	Cour	100	Facul	Cour		Facul	Cours	
	ty	ses		ty	ses		ty	es	

Ŧ									
Ħ									
III	5	4	12	10	6	17	0	0	0
IV	5	6	17	7	4	9	0	0	0
V	7	8	23	1	1	3	6	4	10
VI	10	9	24	1	1	2	3	2	5
VII	8	10	25	1	1	2	6	4	10
VIII	10	5	19	1	1	2	0	0	0

#### J. WORKLOAD DETAILS:

S. No	Name of	Name(s) of	No. of Course	No. of Courses		of ods	Credits	Wo rk	Compl etion Status
	member	Theory/Lab	Т	Р	Т	P		Loa d	Status
1.	Mr. Ayan Chakraborty	Design & Analysis of Algorithm [T- IT501, L - IT591], Multimedia [T-IT- 702], Artificial Intelligence [IT 605D] ,Computer Graphics[IT 604B] ,SEMINAR[IT 681],Cyber Law & Security Policy (HSS) [IT 802B]	2+3	1+1	6+11	6+2	4+2+3+3+ 3+2+3=20	25	Completed
2.	Mr. Anjan Dutta	Data structure & algorithm [T- EE- 504A, L- EE- 594A], Computer Network [EE- 792A], Data Structures & Algorithms(CS) [T-EI 504A], Object Oriented Programming & UML (IT) lab [IT 491],Object Oriented Programming lab[EE694B]	2+0	2+3	6+0	6+15	4+2+3+3+ 2+ 2=16	31	Completed
3.	Mr. Ananjan Maiti	Data structure & algorithm [L- EE- 594A], Operating System [L- IT593], Programming Practices using C++ [ L- IT-	0+2	4+3	0+6	12+15	2+2+2+2+ 2+3+2+3+ 2=20	33	Completed

		594F], Computer Organization Lab [L- CS393],Data Base Management System Lab [IT 691],Computer Networking[IT 602] ,Software Tools lab[CS 492],Programmin g for Problem Solving[ES- CS201],Program ming for Problem Solving Lab[ES- CS291],							
4.	Mr. Sourav Mahapatra	Programming Practices using C++ [T- IT504F, L- IT594F], Data structure & algorithm [T- EE- 504A,EE-594A], Computer Networking lab [IT 693],Cryptograph y & Network Security [IT 801D],Object Oriented Programming[EE -604C],Object Programming lab [EE-694C]	2+2	2+3	6+4	9+9	4+2+3+2+ 2+3+3+2= 21	28	Completed
5.	Ms. Sanjukta Bhattacharya	Computer Organization [T- CS303, L- CS393], Mobile Computing [T- IT704E], Internet Technology [L- IT791], Data Base Management System(CS)[T-EI 504B], Cryptography & Network Security [IT 801D],Data Base Management System[EE- 604B] , DataBase Management Iab[EE- 694B],Project [L PROJ- CS781]	3+2	2+2	11+6	9+9	3+2+3+3+ 3+3+2+3= 22	35	Completed
6.	Dr. Suman Bhattacharyya	Data Structure & Algorithm [T-CS- 302, L-CS-392], E-Commerce [T- IT703A],Project- 1 [L- IT795], Object Oriented Programming &	2+2	1+3	6+8	3+18	4+2+3+3+ 2+2+3+3+ 2=24	31	Completed

		UML (IT)lab [IT 491],Data Base Management System Lab [IT 691],Data Base Management System[ IT 601],Programmin g for Problem Solving[ES- CS201],Program ming for Problem Solving Lab[ES- CS291]							
7.	Mrs. Mahamuda Sultana	Programming Practices using C++ [L- IT594F], Computer Architecture [L- IT592],Operating System Lab [L- IT593], Project-1 [L- IT795], Computer Networking lab [IT 693],Software Engg[IT 603 ],SEMINAR[IT 681],Programmin g for Problem Solving[ES- CS201],Program ming for Problem Solving Lab[ES- CS291]	0+2	3+3	0+6	9+12	2+2+3+ 2+3+2+3+ 2=21	27	Completed
8.	Dr. Nilanjan Dey	Operating System [T- IT503, L- IT593], Computer Network [T- EE- 705A, EE-792A], Object Oriented Programming & UML (IT) lab [IT 491],Object Oriented Programming & UML [IT 401],Computer Networking lab [IT 692],Computer Networking[IT 602]	2+2	2+2	5+4	9+12	3+2+3+2+ 2+3+2+3= 20	30	Completed
9.	Mr. Raja Karmakar	Computer Architecture [T- IT-502, L- IT592], Internet Technology [L- IT791], Formal Language & Automata Theory [CS 402],Software Tools lab[CS 492],Compiler Design [IT 605C] ,Cyber Law &	1+3	2+1	4+10	9+6	4+2+2+3+ 2+3+3=19	29	Completed

		(HSS) [IT 802B]							
10.	Mr. Ankujyoti Das	Data Structure & Algorithm Lab [L- CS 392], Data structure & algorithm [L- EE- 594A], Computer Networking lab[IT 692],Programmin g for Problem Solving[ES- CS201],Program ming for Problem Solving Lab[ES- CS291],Project [L PROJ- CS781]	0+0	2+2	0+0	9+12	4+2+2+2+ 3+3=16	21	Completed
11.	Mr. Suchibrota Dutta	Multimedia [T-IT- 702, L- IT792], Project-1 [L- IT795], Computer Networking lab[IT 692],Programmin g for Problem Solving[ES- CS201],Program ming for Problem Solving Lab[ES- CS291]	1+1	1+2	1+4	6+12	3+2+3+2+ 3+2=15	23	Completed

#### \*\* Add additional sheet if necessary

#### K.COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VII	Tot
								Ι	al
No. of course lesson plans prepared	0	2	2	4	8	8	6	7	37
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	2	4	8	8	6	7	37
No. of courses for which the Lesson Plans are modified after verification	0	1	01	1	1	2	1	1	7
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 mentorin	Remark
				g sessions	
1	Mr. Anjan Dutta	4 <sup>th</sup> Year 1 – 30	30	38	No mention-worthy report that surfaced up. All the issues were handled

					successfully at the mentor level
2	Mr. Ananjan Maiti	4 <sup>th</sup> Year 31 – Rest	32	38	No mention-worthy report that surfaced up. All the issues were handled successfully at the mentor level
3.	Mr. Sourav Mahapatra	3 <sup>rd</sup> Year 1 – 30	30	36	10 weak learners were identified, 3 advanced learners were identified. Necessary steps were taken.
4	Ms Sanjukta Bhattacharya	3 <sup>rd</sup> year 31 – Rest	25	35	15 weak learners were identified, 4 advanced learners were identified. Necessary steps were taken.
5.	Dr. Suman Bhattacharyya	2 <sup>nd</sup> Year 1 – 30	30	39	14 weak learners were identified, 5 advanced learners were identified. Necessary steps were taken.
6	Mrs. MAHAMUDA SULTANA	2 <sup>nd</sup> Year 31 – rest	25	41	6 weak learners were identified, 5 advanced learners were identified. Necessary steps were taken.

#### M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

S.No	Name of the Faculty	Roles & Responsibilities
	Member	
1.	Mr. Ayan Chakraborty	HoD, NAAC Coordinator
2.	Mr. Anjan Dutta	Sports Committee
3.	Mr. Ananjan Maiti	Cultural Fest committee
4.	Mr. Sourav Mahapatra	Cultural Fest committee, Exam cell
5.	Ms. Sanjukta Bhattacharya	Admission Cell
6.	Dr. Suman Bhattacharyya	Routine committee, Anti-ragging Committee, Cultural Committee
7.	Mrs. Mahamuda Sultana	Sports Committee, Anti-Ragging Committee
8.	Dr. Nilanjan Dey	Placement Cell
9.	Mr. Raja Karmakar	Placement cell, Anti-Sexual Harassment Committee

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

	Total number	Duration	International/Nati onal/State/Univer sity/Inter College/ Intra College	Total no of participat ion
Expert Talk	3	1 day, 1 Day, 1 Day	College Level	130

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

	Total number	Duration	International/Nati onal/State/Univer sity/Inter College/ Intra College	Total no of participat ion
Expert Talk	3	1 day, 1 Day, 1 Day	College Level	NA
FDP	3	5 day, 4 day, 3 day	National and State level	NA
Seminar	Nil	NA	NA	NA
Workshop	1	5days	College level	NA
Conference	14		National and International	NA

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

Sl. No.	Event Descriptio n	Organized by	Student Name	Faculty Name	International/Nati onal/State/Univer sity/Inter College/ Intra College
1	Visiting Fellow	University of Reading, UK		Dr. Nilanjan Dey	International
2	2018 NET Score 97.56	UGC		Anjan Dutta	National
3	PHD	University of Calcutta		Dr. Suman Bhattacharya	National
4	2 <sup>nd</sup> runner- up prize in "Protect 2019"a national level project competition	Symbiosis Institute of technology, Pune	Punit Jain, Priyanka Bothra, Mayank Saria, Rashmi Kumari		Inter College
5	Winner team of Poster Competition	CSI state convention	Indrashis Dutta, Janapriyo Maitra		Inter College
6	Winner team of Smart Techno Hackathon	Techno Internation al Batanagar	Rahul Dan, Sonjoy Rana, Shayankar Dutta, Sourav Jana		Inter College

7	2 <sup>nd</sup> Runner- up position in Smart Techno	Techno Internation al Batanagar	Anupam Anand, Rashmi Kumari,	Inter College
	Hackathon		Mayank Saria and Punit Jain	

#### **Q. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION: 5**

#### **R. NO. OF STUDENTS PLACED: 37**

#### S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1.	Prof. Ayan Chakraborty	Asst. Prof. & HoD
2	Prof. Suman Bhattacharya	Asst. Prof.
3	Prof. Sourav Mahapatra	Asst. Prof.
4	Prof. Raja Karmakar	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.	JOURNAL		ВООК	AUTHORED	TOTAL
	CONFERE NCE	SCOPUS	SCI/ESCI	CHAPTER	BOOK	
Faculty only	2	14	5	2	8	31
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 <sup>th</sup> semester onwards to provide more time for the students to understand the domain to achieve better results in project work.
NO OF PROJECT GROUPS	15

NO OF PROJECT PROGRSS REPORTS	2 per semester for final year for each group
SUBMITTED	

#### W.DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY/SELF FUNDED PROJECT	FUNDING AUTHORITY	COMPLETIO N STATUS
Nil			

#### X. DETAILS OF IPR

Sl. No.	Patent	Copyright	<b>Details of IPR</b>	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.

#### Z.VALUE ADDED COURSES OFFERED

S. No	Name of the value added courses (with 30 or more contact hours) offered	Durati on 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	55	51	Achieved good impact in placement.
2	Programming for complex problem solving using pseudocode	30 Hours	55	52	Achieved good impact in placement.
3.	Induction course on Basic Computer fundamentals and troubleshooting	30 Hours	50	40	Satisfactory performance on troubleshooting.

SWOC	ANALYSIS
STRENGTH:	• Respectful yet friendly teacher – student relationship
	<ul> <li>Strong exposure to real life projects</li> <li>Conducive environment for all round and holistic development of the</li> </ul>
	<ul> <li>students</li> <li>Joint effort from teachers and students for project and research</li> </ul>
WEAKNESS:	<ul> <li>Still the laboratory facilities are not adequate</li> <li>Lesser focus on expert talk and seminars</li> </ul>
OPPORTUNI TIES:	<ul> <li>IT industry is getting more expanded, hence good number of placement opportunities for the students are expected</li> <li>Students are interval and the students are expected</li> </ul>
CHALLENGES	<ul> <li>Students are getting focused towards Hands on Projects from the 2<sup>nd</sup> year</li> <li>4<sup>th</sup> year students are hardly getting time for the final year projects to complete due to placement activities</li> </ul>
:	<ul> <li>Students are more focused on job opportunities , hence aspiration for theoretical knowledge gain among the students is not the priority at the moment</li> </ul>

#### Academic Year: 2018-19

Date of Audit: 08-02-2019

Clause No.	Score in <u>5 point</u> scale	Remarks			
Clause 140.		External	Remarks		
Internal Audi		Auditor			
			Associate and Professor		
B	3	3	required		
С	4	3.5	ok		
			Current generation systems are		
D	3	3.5	inadequate		
E	4	4	Standard		
F	4	4	Adequate		
G	4	4	ok		
H	4	3.5	Moderate		
I	3	4	good		
J	3	4	clear		
K	4	4	Standard Practice followed		
L	4	4.5	Followed		
M	4	5	Distribute		
N	3	3			
0	4	4	Adequate		
			National level competition		
Р	3	4	attended		
Q	2	3	Encouragement for higher study required		
R	4	4.5	Good		
S	4	4	Followed		
Т	4	4			
			Initiate PhD enrolment for		
U	4	4	faculty		
		0 I L. ZU	Project need to be started from		
V	4	4.5	6th sem		
W	0	0			
х	0	0			
Y	4	4	Followed		
Z	4	4			
AA	4	4			
TOTAL	88	94			

### Evaluated and verified by

	Name	Designation	Affiliation	Signature
External Auditor	Dr. Pinakpani Pal	Associate Professor	ECSU, ISI Kolkata	Ruckpeni Hol
Internal Auditor	Dr. Suman Bhattacharya	Ast. Professor	Dept. of IT, TINT	Shuttange
Internal Auditor	Prof. Sourav Mahapatra	Ast. Professor	Dept. of IT, TINT	Abh
IQAC Coordinator	Dr. Tapas Kumar Nandi	Associate Prof.	Dept. of ME, TINT	-k. p-Oh.
HoD	Prof. Ayan Chakraborty	Ast. Professor	Dept. of IT, TINT	Thatabay
Director	Dr. R. T. Goswami	Professor & Director	TINT	Rummie
			S Dept. of To S	V

# External Academic Administrative Audit AY-2018-2019

# DEPARTMENT OF MASTER OF COMPUTER APPLICATION



# **TECHNO INTERNATIONAL NEW TOWN**

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

#### A. DEPARTMENT DETAILS

Name of Department	Department of Computer Application						
Name of Programme	Master of Computer Application						
Academic year	2018-19						
Student Intake	180 [60+60+60]						
No. of enrolled student	86 [35+28+23]						
	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 :9

#### C. STUDENT FACULTY RATIO: 20:1

#### D. NO. OF LABORATORIES: 02

#### E. DETAILS OF THE EQUIPMENTS IN LABORATORIES:

S/N	Lab Name	No. of accommo dation	Equipment	Specification	Last Upgraded
1	MCA LAB 1	38	38 PC, 1 Projector	i) WIPRO(21)- HD320Gb,RAM 4Gb,Processor-INTEL® CORE <sup>TM</sup> 2 DUO CPU 2.93GHZ ii) ACER(17)-HD500GB, RAM 4GB,Processor-INTEL® CORE <sup>TM</sup> i3- 3240 CPU 3.40GHZ	NA
2	MCA LAB 2	54	54 PC, 1 Projector	i)WIPRO(8)- HD320Gb,RAM 4Gb,Processor- INTEL® CORE <sup>TM</sup> 2 DUO CPU 2.93GHZ ii) ACER(2)-HD 500GB, RAM 4GB,Processor-INTEL® CORE <sup>TM</sup> i3-3240 CPU 3.40GHZ iii) HCL(40)-HD 40Gb, RAM 2Gb,Processor-PENTIUM®D CPU 2.80 GHZ iv) LENOVO(4)- HD 1TB,RAM 8Gb,Processor- INTEL® CORE <sup>TM</sup> i3- 3240 CPU 3.40GHZ	Replace 4pics LENOVO to HCL

#### **F. DETAILS OF ICT TOOLS:**

- a. BlackBoard/White Board
- b. Overhead Project
- c. Google Meet
- d. Microsoft Teams
- e. Moodle

#### **G. FACULTY DETAILS**

S/N	Name of the Faculty Member	Highest Qualification With Specialization	Expe rienc e (Yea rs)	Roles & Responsibilities	Designati on	Date of Joining
1	Prof. BIDYUT BIMAN SARKAR	PhD	37	HoD	Associate Professor	21/03/2016
2	Prof. SARBANI DASGUPTA	M.Tech	12	1.Routine Committee 2.Libray Committee	Assistant Professor	09/01/2009
3	Prof. SUBHODIP MUKHERJEE	M.Tech	22	1. Exam Cell 2. Music Club	Assistant Professor	15/01/2007
4	Prof. SASWATI GHOSH	M.Tech	13	<ol> <li>Aesthetica (Art and Craft Club)</li> <li>TINT Photography Club</li> <li>TINT Talkies</li> <li>TINT NSS Unit</li> <li>Kanyasree Club</li> </ol>	Assistant Professor	01/09/2007
5	Prof. SARASIJ MAJUMDAR	M.Tech	11	<ol> <li>Anti Ragging Squad</li> <li>Sports Committee</li> <li>Grievance Redressal Cell</li> </ol>	Assistant Professor	15/09/2008
6	Prof. HEMANTA DEY	M.Tech	14	<ol> <li>Anti Ragging Committee</li> <li>Placement Cell</li> <li>infosys CCP</li> <li>Hostel Committee</li> <li>Science Club</li> <li>IEEE student</li> <li>branch counselor</li> </ol>	Assistant Professor	09/01/2009
7	Prof. SOUMEN SANTRA	M.Tech	8	<ol> <li>Admission Cell</li> <li>Placement Cell</li> <li>Scholarship Cell</li> <li>Training Cell</li> <li>Coding Club</li> </ol>	Assistant Professor	01/10/2010
8	Prof. TATHAGATA BARIK	M.Tech	4	Litwit Club	Assistant Professor	26/08/2015
9	Prof. SOMA CHATTERJEE	M.Tech	12	Hridmajhare	Assistant Professor	07/06/2016

#### 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	0	0	0
II	0	0	0
III	0	0	0
IV	0	0	0
V	9	6	4
VI	0	0	0

Year/Semeste From Core Department				From C	Other Depa	artment	To Other Department		
r (Theory & Labs)	No. of Faculty	No. of Courses	Credit s	No. of Faculty	No. of Courses	Credits	No. of Faculty	No. of Courses	Credits
Ι	6	5	18	2	2 3		0	0	0
II	8	8	3 29 0		0	0	0	0	0
III	5	5	18	2	4 11 0		0	0	
IV	6	6	28	0	2	0	0	0	0
V	5	6	22	0	0	0	0	0	0
VI	0	0	0	0	0	0	1	1	6

#### I. COURSE DELIVERY:

#### J. WORKLOAD DETAILS:

	Name of the		No. of Courses		No. of P	eriods		Work	Completion
S/N	faculty member	Name(s) of the Theory/Lab	Т	Р	Т	Р	Credits	Load	Status
1	Prof. SARBANI DASGUPTA	MCA302-Unix and Shell Programming MCA392-Unix lab MCA E501A- Distributed database management MCA403 Data Base Management System II MCA493 Advanced Database lab	3	2	12	8	18	20	Completed
2	Prof. SUBHODIP MUKHERJEE	MCA 193 Programming Lab(C) MCA E502B- Windows Programming WithVB MCA 202 Information Systems Analysis & Design	2	1	8	4	11	12	Completed
3	Prof. SASWATI GHOSH	MCA103 Computer Programming with C MCA 201 Data Communication & Computer Networks MCA402 Graphics & Multimedia MCA492 Graphics & Multimedia Lab	3	1	12	4	15	16	Completed
4	Prof. SARASIJ MAJUMDAR	MCA101 Computer Organisation & Architecture MCA 191 Micro Programming & Architecture Lab HU501- Values and Ethics of Profession MCA204 Database Management System I MCA294 Database lab	3	2	11	8	17	19	Completed

S/N	Name of the faculty member	Name(s) of the Theory/Lab	No. of Courses		No. of Courses No. of Pe		eriods	Credits	Work Load	Completion Status
5	Prof. HEMANTA DEY	MM391-Statistics and Numerical Analysis lab MCA E592B-VB Lab MCA205 Object-Oriented Programming With C++ MCA295 Object-Oriented Programming lab (C++)	2	1	8	4	11	12	Completed	
6	Prof. SOUMEN SANTRA	MCA303-Intelligent Systems MCA E503B- Object Oriented Programming With Java MCA203 Data Structures with C MCA293 Data structure lab	2	1	8	4	11	12	Completed	
7	Prof. TATHAGATA BARIK	MCA 191 Micro Programming & Architecture Lab MBA-302 Management Accounting MBA392 Accounting System Lab	1	2	2	8	8	8	Completed	
8	Prof. BIDYUT BIMAN SARKAR	MBA-301 Business Management MCA E504B-E-commerce MCA401 Software Engineering & TQM	3	0	10	0	10	10	Completed	
9	Prof. SOMA CHATTERJEE	MCA102 Business Systems and Application MCA301-Operating Systems and Systems Software MCA295 Object-Oriented Programming lab (C++)	2	1	8	4	11	12	Completed	

#### K.COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	Total
No. of course lesson plans prepared	3	5	3	3	4	0	18
No. of courses for which course lesson plans are not prepared	2	0	3	2	1	0	8
No. of courses verified by internal verifier (Senior Faculty/HOD)	3	5	3	3	4	0	18
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:

Whether the mentors are updating mentor books and conducting counselling 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. Soument Santra	18701017001 to 18701017022 & 18701018001 to 18701018007	28	29	

S/N	Faculty Name	Cell/ Committee/ Club	
1	Prof. SARBANI DASGUPTA	1. Routine Committee	
-		2. Libray Committee	
2	Prof. SUBHODIP MUKHERJEE	1. Exam Cell	
		2. Music Club	
		2. TINT Photography Club	
3	Prof SASWATI CHOSH	2. TINT Flotography Club 3. TINT Talkies	
5	1101. BAS WATT GHOSH	4 TINT NSS Unit	
		5. Kanyasree Club	
		1. Anti Ragging Squad	
4	Prof. SARASIJ MAJUMDAR	2. Sports Committee	
-		3. Grievance Redressal Cell	
		1. Anti Ragging Committee	
		2.Placement Cell	
5	Prof. HEMANTA DEY	3. infosys CCP	
5		4. Hostel Committee	
		5. Science Club	
		6. IEEE student branch counselor	
		1. Admission Cell 2. Placement Cell	
6	Prof. SOUMEN SANTRA	2. Flatement Cell	
U		4 Training Cell	
		5. Coding Club	
7	Prof. TATHAGATA BARIK	1.Placement Cell	
8	Prof. BIDYUT BIMAN SARKAR	HoD	
9	Prof. SOMA CHATTERJEE	hridmajhare	
		1. Aesthetica (Art and Craft Club)	
		2. TINT Photography Club	
10	Prof. SASWATI GHOSH	3. TINT Talkies	
		4. TINT NSS Unit	
		5. Kanyasree Club	

#### M. DETAILS OF NON-ACADEMIC RESPONSIBILITY

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

	Total number	Duration	International/National/Sta te/University/Inter College/ Intra College	Total no of participation
Expert Talk				
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	2	4 hrs	University	55
FDP				
Seminar	2	2 hrs	Intra College	30
Workshop				
Conference				

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

SI. No.	<b>Event Description</b>	escription Organized by		Faculty Name	International/National/State/ University/Inter College/ Intra College
1	5 days' workshop on Best Practices on Python & RDBMS	Infosys		Hemanta Dey	Vignana Bhatari Institute of Technology , Hyderabad, from 29 <sup>th</sup> Jan to 02 <sup>th</sup> Feb, 2018

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

#### **R. NO. OF STUDENTS PLACED: 12**

#### S. DEPT. ACADEMIC COMMITTEE (DAC)

Sl. No.	Name	Designation
1	Prof. BIDYUT BIMAN SARKAR	HoD
2	Prof. SARBANI DASGUPTA	Assistant Professor
3	Prof. SUBHODIP MUKHERJEE	Assistant Professor
4	Prof. HEMANTA DEY	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-1
- 2. Lesson plans
- 3. Syllabus Coverage-1
- 4. Mentoring
- 5. Any other information

Comments of the auditor:

#### **U. DEPARTMENTAL RESEARCH INITIATIVES**

ТҮРЕ	INT. CONFERENCE	JOUI SCOPUS	RNAL SCI/eSCI	BOOK CHAPTER	AUTHORE D BOOK	TOTAL
Faculty only	14					
<b>Student-Faculty</b>	1					

#### V. STUDENT PROJECT MENTORING SYSTEM

PROJECT ALLOCATION PROCESS	<ul> <li>Project Coordinator selection (Minor &amp; Major)</li> <li>Coordinator collects project list</li> <li>Project distribution among interested group (max 4 members)</li> </ul>
NO OF PROJECT GROUPS	06
NO OF PROJECT PROGRESS REPORTS SUBMITTED	06

#### W.DEPARTMENTAL PROJECT INITIATIVES

YEAR	NO OF EXTERNALLY FUNDED PROJECT	FUNDING AUTHORITY	COMPLETION STATUS
	Nil		

#### X. DETAILS OF IPR

Sl. No.	Patent	Copyright	<b>Details of IPR</b>	<b>Faculty involved</b>	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 <u>participate in the event.</u>
- 8. <u>Various types of events such as Invited Talks, Role Play, Quiz, Essay Writing, Elocution,</u> 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.

<u>S/N</u>	<u>Name of the value added courses (with 30</u> or more contact hours) offered	<u>Duration of</u> <u>course</u> (Hours)	<u>Number of</u> <u>students</u> <u>enrolled in</u> <u>the year</u>	<u>Number of</u> <u>Students</u> <u>completing the</u> <u>course in the</u> <u>year</u>	<u>Remarks</u>
<u>1</u>	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	<u>30</u>	<u>26</u>	<u>24</u>	
2	Programming for complex problem solving using pseudocode	<u>30</u>	<u>26</u>	<u>24</u>	
<u>3</u>	IoT with Raspberry Pi	<u>30</u>	<u>28</u>	<u>25</u>	
<u>4</u>	Computer Fundamentals, Installations and Maintenance	<u>30</u>	<u>35</u>	<u>32</u>	

#### Z. VALUE ADDED COURSES OFFERED
#### 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.
	<ul> <li>Strong faculty qualification, talented and dedicated, knowledgeable and cooperative faculty, great collaboration, and good communication among faculty.</li> <li>Strong research potential with proven records of high-quality research, relatively good faculty members in research &amp; active faculty publication activities.</li> <li>Working Environment         <ul> <li>Strong leadership, good department chair</li> </ul> </li> </ul>
STRENGTH:	<ul> <li>Strong department level support for faculty research activities</li> <li>Supportive working environment among department members</li> <li>Excellent administrative support</li> </ul>
	Academic Programs • MAKAUT-accredited UG/PG programs. • Excellent undergraduate curriculum including a well-developed BSc degree in Computer Science with an area of a discipline of Data Science & Cyber
	<ul> <li>Security.</li> <li>Good faculty members in teaching and TA support.</li> <li>Engaging Students in Research         <ul> <li>Numerous research/independent study opportunities for students</li> <li>Large number of students associated to department projects and events</li> </ul> </li> </ul>
	<ul> <li>Good computing environment (labs and server).</li> <li>Adequate lab facilities. Interactions with Community.</li> </ul>
	<i>External Grants and Graduate Program Development</i> · Inactive in research funding. Develop more national/state level grant
	proposals and increase/establish funds available for Research.
	<ul> <li>Increase collaborative research/projects among the faculty members.</li> <li>Not many strong publications.</li> </ul>
	• Few internal seminars and special presentations.
	Control of the student students     Control of the student student in the student student student students     Control of the student students
WEAKNESS:	Instructions and Curriculum
	• Compared to the number of departments and students, the number of supporting staff is inadequate.
	• Need more faculty for teaching graduate UG courses of Data Science & Cyber Security.
	• Need to bring graduate and undergraduate curriculum up-to-date.
	· Lack of activities between faculty, students and industry
	<ul> <li>Not many professorial ranked faculty represent/protect the department.</li> <li>Need active professorial ranked faculty to support department</li> </ul>

	· 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 center of excellence
	· Develop interdisciplinary research / projects using existing center
	• 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 internships and Co-op programs are available
	· Build up the department from recent joining faculty members
ODDODTINI	· Expand outreach activities, e.g., high school programming contest
UPPORTUNI TIES.	· Balancing teaching quality with research
TIES:	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
	· Faculty complacency, heavy consultant engagement with industries, less
	service to the department.
	· 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 center of excellence
	· Develop interdisciplinary research / projects using existing center
	· 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
	• Student internships and Co-op programs are available
	• Expand outreach activities, e.g., high school programming contest
CHALLENG	· Balancing teaching quality with research
ES:	Encroachment and Inconsistency
	· Continuing encroachment on Computer Science mission by other
	departments
	What if we have anough time in the day to do exempting?
	The second
	· Balancing teaching quality with research
	• Faculty complacency heavy consultant engagement with industries less
	service to the department
	• 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

Clause No.	Score in 5 point scale (	Full Marks 130)	Remarks
	Internal Auditor	External Auditor	
В	3	3.5	
C	5	5	
D	5	4	
E	3	3	
F	4	4	
G	4	4	
Н	5	4	
I	5	4.5	
J	4	4	
K	4	4	
L	3	3.5	
M	5	4	
N	1	1	
0	2	2	
P	2	2	
Q	3	2	
R	1	1	
S	5	5	
T	1	1	
U	4	3.5	
V	4	4	
W	0	0	
X	0	0	
Y	4	4	
Z	4	4	
AA	4	4	
TOTAL	85	81	

Assessment Year (3 yrs.): 2016-2019

	Name	Designation	Affiliation	Signature
External Auditor	Prof. (Dr.) Pinakpani Pal	Associate Professor	ISI	Princhpan Pal
Internal Auditor	Prof. Soma Chatterjee	Assistant Professor	TINT	SomeChaltger.
Internal Auditor	Prof. Saswati Ghosh	Assistant Professor	TINT	Saguati Charol
<b>IQAC</b> Coordinator	Prof. (Dr.) T. K. Nandi	Assistant Professor	TINT	Zin C
HoD	Prof. (Dr.) B. B. Sarkar	Assistant Professor	TINT	Blosenken
Director	Prof. (Dr.) R T Goswami	Director	TINT	(inner 18)
				5 Allona

Comments of the auditor:

Observation is softerfactory. Renekfari Perl.

Name and Signatures of Internal Auditors

Name & Signature of the IQAC Coordinator

1. Saswati Ghosh

Oas wat ghash

Dr. Tapas Kumar Nandi -k. Our

Name & Signature of the HoD Dr. Bidyut Biman Sarkar

Dosankar

2. Hemanta Dey

## EXTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT AY – 2018-2019

# 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:	mme: B. Tech							
Academic year	2018-19							
Student Intake	120							
No. of enrolled student	418							
	Ι	II	III	IV	V	VI	VII	VIII
No. of Theory courses offered	00 00 06 05 06 06 05 03							
No. of Practical classes offered	02	02	05	05	05	05	04	03

#### B. FACULTY/STAFF STRENGTH : 17

#### C. STUDENT FACULTY RATIO: 21.17

#### **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: Class room Projector

#### **G. FACULTY DETAILS**

	Name of the	Highest	Experience	Roles &	Designation	Date of
S.P	Faculty	Qualification With	(Years)	Responsibilities	_	Joining
<b>D</b> •1	Member	Specialization				_
1.	Dr. Tapas	PhD, ROTODYNAMIC	14	1. Academic	Associate	02-07-2013
	Kumar Nandi	MACHINES.		Committee	Professor	
				2. Departmental		
				Academic		
				Committee		
				3. Disciplinary		
				Committee		
				4. NAAC cls		
				Coordinator		
				5. IQAC		
				coordinator		
2.	Dr. Abhijit	PhD	16	1.Academic	Associate	21-03-2016
	Patra			Committee	Professor	
				2. Departmental		
				Academic		
				Committee		
				3 Grievance		
				Redressal Cell		
				4 Entrepreneurshin		
				Cell		
3	Sumit Kumar	M Tech Mechanical	9	1 Anti-Ragging	Assistant	08-09-2010
5.	Mukhopadhyay		,	Committee	Professor	00-07-2010
	wiaknopaanyay			3 Routine	1 10103501	
				Committee		
				5 NSS Committee		
4	Dibyendu	M.Tech. Mechanical	10	1 Academic	Assistant	02-09-2014
т.	Nath		10	Committee	Professor	02 09 2011
	i vatii			2 Departmental	110105501	
				Academic		
				Committee		
				3 Library		
				Committee		
5	Dr. Santanu	PhD. Machine Design	6	1. Departmental	Assistant	03-02-2015
	Duari	,	0	Academic	Professor	00 02 2010
				Committee		
				2. Disciplinary		
				Committee		
				3. Departmental		
				NAAC		
				Committee		
6.	Aniket Maiti	M.Tech(MECHANICAL.	12	1. T&P Cell	Assistant	18-08-2005
		OPERATION(PRODUCTion)).		2. Departmental	Professor	
		PGPM		Academic		
				Committee		
				3. Exam Cell		
				4. Gender		
				sensitization		
				committee		
7.	Diganta	M.Tech, ME,COMPUTER	7	OIC Examination	Assistant	
	Munshi	SCIENCE		Cell	Professor	02-03-2011
8.	Dipanjan Saren	M.Tech, MANUFACTURING	7	1. Anti-Ragging	Assistant	20-01-2015
		TECCHNOLOGY		Committee	Professor	
				2. Cultural Fest		
				Committee		

				3. Routine Committee 4.NBA Working Committee 5.NSS Committee		
9.	Prabir Biswas	ME, heat power	7	<ol> <li>Routine Committee</li> <li>"Hridmajhare"The club of performing Arts</li> </ol>	Assistant Professor	20-04-2017
10.	Arindam Roy Goswami	ME, MACHINE DESIGN	4	1. Business Incubation Cell, TINT 2. TINT Science club 'Genesis'	Assistant Professor	20-07-2015
11.	Sumit Dey	M.Tech, PRODUCTION ENGINEERING	4	<ol> <li>Training and Placement Cell</li> <li>Cultural committee (Fresher and Fest)</li> <li>Anti-ragging committee</li> <li>Sports committee</li> </ol>	Assistant Professor	05-08-2015
12.	Anustup Chatterjee	M.Tech, FLUID MECHANICS	5	1. Exam Cell 2.Admission Cell	Assistant Professor	25-07-2016
13.	Mr. Gourab Chakraborty	M.Tech, Mechanical	2	Departmental Event organizer	Assistant Professor	02-07-2017
14.	Mr. Abhijit Bhowmik	M.Tech, Mechanical	1	<ol> <li>Departmental Event organizer</li> <li>Departmental Project Coordinator</li> </ol>	Assistant Professor	06-01-2016
15.	Ivy Choudhury	M.Tech, Water Resources and Hydrulic Engg.	2	1. NPTEL 2. M-Tutor 3.Ant-Ragging Committee	Assistant Professor	10-07-2017
16.	Hrishita Barman	M.Tech, Mechanics	3	1. Routine committee 2.Anti ragging committee 3.Litwits club	Assistant Professor	10-07-2017
17.	Basumitra Ghosh	M.Tech, Thermal	1	<ol> <li>SPICE</li> <li>Departmental Event organizer</li> <li>Face book live (Technical Support)</li> </ol>	Assistant Professor	06-09-2018

#### 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
5 <sup>th</sup>	2	2	1
6 <sup>th</sup>	6	6	2
7 <sup>th</sup>	10	10	3
8 <sup>th</sup>	8	8	2

#### I. COURSE DELIVERY:

Year/Semes	From Core Dept			From Other Dept To Other Dept					
ter (Theory & Labs)	No. of Facul ty	No. of Cours es	Credi ts	No. of Facul ty	No. of Cours es	Credi ts	No. of Facul ty	No. of Cours es	Credi ts
Ι	-	-			-	-	13	2	6
II							12	2	6
III	6	6	16.5	5	5	14	0	0	0
IV	9	7	11	0	0	0	2	1	3
V	10	11	28	0	0	0	0	0	0
VI	9	11	26.5	0	0	0	1	1	3
VII	6	6	20.5	0	0	0	1	1	3
VIII	4	4	15.5	0	0	0	0	0	0

#### J. WORKLOAD DETAILS:

				No Sub	. of jects	No Pe	o. of riods		
S L. N o.	Name of the faculty member	Sem(Od d/Even)	Name(s) of the Theory/Lab	T	P	T	P	Total Work Load per sem	Total
1	Dr. Tapas	ODD	Strength of Materials(ME302),Heat Transfer(ME502), Applied Mechanics Lab.(ME393),Applied Thermodynamics & Heat Transfer Lab.(ME-592)	2	1	4	9	13	27
1	Kumar Nandi	EVEN	Fluid Mech. & Hyd. M/C(ME401), Fluid Mechanics & Hyd. Lab(ME491),I.C Engine Lab.(ME692),Design of Mechanical system(ME881)	2	3	5	9	14	21
		ODD	Dynamics of Machines(ME-501),Seminar-I(ME- 581)	1	1	6	6	12	
2	Mr. Basumitra Ghosh	EVEN	Fluid Mech. & Hyd. M/C(ME401), Workshop(ES-ME292),Fluid Mechanics & Hyd. Lab(ME491)	1	2	3	18	21	33
		ODD	Engg. Materials(ME-303), Metrology of Measurement(ME-504), Metrology & Measurement Lab.(ME594)	2	1	6	6	12	
3	Dr. Abhijit Patra	EVEN	PrimaryManufacturing Process(ME403),I.C Engine & Gas Turbine(ME601),,I.C Engine Lab.(ME692),Design of Mechanical system(ME881)	2	2	4	9	13	25
4	Mr. Sumitkumar	ODD	Engg. Materials(CE705A), Workshop (ES- ME192),Material Testing Lab(CE 793A)	1	2	6	13	19	20
4	Kumar Mukhopadhyay	EVEN	Material Handling(ME605A),Workshop(ES- ME292),Material Testing Lab.(ME493)	2	2	9	11	20	39
		ODD	Engg. Materials(ME-303), Principles & Practices of Management(HU-511),Workshop (ES- ME192),Workshop Practice-II(ME392)	2	2	7	11	18	
5	Mr. Diganta Munshi	EVEN	PrimaryManufacturing Process(ME403),Workshop(ES-ME292),Thermal Power Lab(ME-(EE)481),Manufacturing Tech. Lab(ME492)	1	2	4	11	15	33
6	Mr. Dibyendu	ODD	Thermodynamics(ME301),Renewable Energy Systems(ME703B),Graphics (ES- ME191),Applied Mechanics Lab.(ME393),Seminar-I(ME581)	2	3	7	11	18	27
0	Mr. Dibyendu Nath	EVEN	Mechanisms(ME402),Air conditioning & Refrigeration(ME604A),Graphics(ES- ME291),Dynamics of Machine Lab.(ME694),Air Conditioning & Refrigeratoion Lab.(ME695)	2	4	5	14	19	57

7	Mr. Aniket	ODD	Design of Machine Elements(ME503),Machine Drawing-I(ME391),Design Practice- I(ME593),Seminar-I(ME581)	1	3	4	15	19	20
/	Maity	EVEN	I.C Engine & Gas Turbine(ME601), Machine Design(ME603),,I.C Engine Lab.(ME692),Design Practice-II(ME693),	3	2	10	9	19	38
8	Dr. Santanu	ODD	Design of Machine Elements(ME503),Applied Fluid Mechanics(ME504),Graphics (ES- ME191),Machine Drawing-I(ME391),Design Practice-I(ME593)	1	3	7	14	21	41
0	Duari	EVEN	Machine Design(ME603),Graphics(ES-ME291), Machining & Machining Tools Machine Drawing -II(ME494) ,Design Practice-II(ME693)	1	3	3	17	20	
	Mr. Dipanian	ODD	Advanced Manufacturing Technology(ME-702), Advanced Welding Technology(ME-704 B),Workshop (ES-ME192),Workshop Practice- II(ME392),Advanced Manufacturing Lab(ME791)	2	3	7	14	21	
9	Saren	EVEN	PrimaryManufacturing Process(ME403),CAD/CAM(ME802A),Machinin g Princple & Machining Tools(ME602), Manufacturing Tech. Lab(ME492),Machining & Machining Tools Lab.(ME691)	3	2	8	12	20	41
10	Mr. Arindam	ODD	Power Plant Engg.(ME701), Workshop (ES- ME192),Graphics (ES-ME191),Machine Drawing-I(ME391)	1	3	4	18	22	41
10	Roy Goswami	EVEN	Thermal Power Engg.(ME-(EE) 411),Thermal Power Lab(ME-(EE)481),Machine Drawing - II(ME494),Dynamics of Machine Lab.(ME694)	1	3	4	15	19	41
11	Mr. Sumit Dey	ODD	Advanced Manufacturing Technology(ME-702), Advanced Welding Technology(ME-704 B),Workshop (ES-ME192),Workshop Practice- II(ME392),Advanced Manufacturing Lab(ME791)	2	3	7	14	21	41
		EVEN	CAD/CAM(ME802A),Workshop(ES- ME292),Machining & Machining Tools Lab.(ME691)	3	2	9	11	20	
12	Mr. Anustup	ODD	Heat Transfer(ME502), Applied Fluid Mechanics(ME505B), Applied Fluid Mechanics Lab.(ME595B), Workshop (ES-ME192), Graphics (ES-ME191)	2	3	6	18	24	
12	Mr. Anustup Chatterjee	EVEN	Graphics(ES-ME291),Workshop(ES- ME292),Fluid Mechanics & Hyd. Lab(ME491),Air Conditioning & Refrigeratoion Lab.(ME695)	0	4	0	18	18	72

12	Mr. Prabir	ODD	Thermodynamics(ME301),Renewable Energy Systems(ME703B),Graphics (ES- ME191),Applied Thermodynamics & Heat Transfer Lab.(ME-592),Material Testing Lab(CE 793A)	2	3	7	14	21	41
13	Biswas	EVEN	Air conditioning & Refrigeration(ME604A),Graphics(ES- ME291),Thermal Power Lab(ME- (EE)481),Material Testing Lab.(ME493),Air Conditioning & Refrigeratoion Lab.(ME695)	1	3	3	17	20	41
14	Ms. Ivy	ODD	DD Heat Transfer(ME502),Applied Fluid Mechanics(ME505B),pplied Fluid Mechanics Lab.(ME595B),Workshop (ES-ME192)		2	6	14	20	37
	Chowdhury	EVEN	Fluid Mech. & Hyd. M/C(ME401), Workshop(ES-ME292),Fluid Mechanics & Hyd. Lab(ME491),	1	2	3	14	17	
1.5	15 Ms. Hrishita Barman	ODD	Strength of Materials(ME302),Graphics (ES- ME191),Applied Mechanics Lab.(ME393),Metrology & Measurement Lab.(ME594)	1	3	4	18	22	10
15		EVEN	Mechanisms(ME402),Graphics(ES- ME291),Material Testing Lab.(ME493),Dynamics of Machine Lab.(ME694)	1	3	4	16	20	42
16	Mr. Abhijit	ODD	Power Plant Engg.(ME701),Workshop (ES- ME192),Material Testing Lab(CE 793A),Industrial Instrumentation(ME705B)	2	2	7	18	25	41
10	16 Bhowmik	EVEN	Production & Operation Management(HU611),Graphics(ES- ME291),Workshop(ES-ME292),	1	2	4	12	16	41
17	17 Mr. Gourab Chakraborty	ODD	Workshop (ES-ME192),Graphics (ES- ME191),Material Testing Lab(CE 793A),Industrial Instrumentation(ME705B)	1	3	3	19	22	47
1/		EVEN	Thermal Power Engg.(ME-(EE) 411),Graphics(ES-ME291),Workshop(ES- ME292),Material Testing Lab.(ME493),	2	3	4	21	25	4/

#### K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	2	2	5	5	5	5	6	2	32
No. of courses for which course lesson plans are not prepared	1	1	1	2	3	2	4	1	15
No. of courses verified by internal verifier (Senior Faculty/HOD)	2	2	5	5	5	5	6	2	32
No. of courses for which the Lesson Plans are modified after verification	2	2	5	5	5	5	6	2	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. Sumit Kumar Mukhopadhyay	18700718001 - 19, 68	20	12	Extra class was arranged to Solve academic problem, No other problem
2.	Prof. Aniket Maiti	18700716027 - 50 18700716006 - 26	22 21	11	No academic problem, No other problem
3.	Prof. Diganta Munshi	18700715077 - 100	24	12	No academic problem, No Health issue
4.	Prof. Dibyendu Nath	18700715045 - 76	31	12	No academic problem, No Health problem
5.	Prof. Dipanjan Saren	18700715001 - 21 18700715101 - 122 + 18700716001 - 02	21 24	07	Extra class was arranged to Solve academic problem, No other problem
6.	Prof. Santanu Duari	18700715022 - 42	21	04	All the students attended Theory and Practical classes regularly.
7.	Prof. Arindam Roy Goswami	18700717111 - 133 18700716122 - 145	23 23	24	Noacademic problem, No other problem
8.	Prof. Anustup Chatterjee	18700717087 - 110	24	12	Extra class was arranged to Solve academic problem, No other problem
9.	Prof. Sumit Dey	18700717065- 86 18700716074 - 98	22 24	08	All the students attended Theory and Practical classes regularly.
10.	Prof. Prabir Biswas	18700717017 - 64	48	14	most of the mentee aíe modeíate leaíneí .

11.	Prof. Ivy Das Chowdhury	18700716062 - 73 18700716146- 150 + 18700717001- 16, 134	12 22	21	All the students attended online Theory and Practical classes regularly. Most of them were moderate learner. Arit Guha Neogi was found as slow learner.
12.	Prof. Hrishita Barman	18700716051- 61 18700716099 - 121	9 22	12	All the students attended Theory and Practical classes regularly.

#### 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 IQAC cell
3	Dr. Santanu Duari	Departmental Exam cell
4	Mr. Aniket Maity	Examination Committee Placement Cell
5	Mr. Prabir Biswas	Routine Committee
6	Mrs. Ivy Das Chowdhury	Sports committee INTERNAL COMPLAINTS COMMITTEE
7	Mr. Sumit Dey	Placement Cells Cultural Committee Anti-ragging Squad
8	Mr. Arindam Roy Goswami	Institution Innovation Cell (IIC)
9	Mrs. Hrishita Barman	Routine Committee Anti-ragging Committee

#### M. EXPERT TALK/FDP/SEMINAR/CONFERENCE/WORKSHOP ORGANISED

	Total number	Duration	International/National/ State/University/Inter College/ Intra College	Total no of participatio n
Expert Talk	01	09-12-2018 to 09- 12-2018	Inter College	30
FDP	-	-	-	-
Seminar	-	-	-	-
Workshop	02	10-05-2018 to 10- 05-2018 16-03-2018 to 18- 03-2018	Inter College	30 30
Conference	-	-	-	-

#### N. 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	01	03-12-2018 - 14-	National	01
		12-2018		
Seminar	-	-	-	-
Workshop	02	24-04-2019 - 24- 04-2019 03-08-2018 -03-08- 2018	National	02
Conference	-	-	-	-

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

SI. No.	Event Description	Organized by	Student Name	Faculty Name	International/National/Sta te/University/Inter College/ Intra College
-	-	-	-	-	-

#### P. NO. OF STUDENTS OPTED FOR HIGHER EDUCATION: 04 Q. NO. OF STUDENTS PLACED: 41 (27.8%)

#### R. 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.	Dr. Santanu Duari	Assistant Professor
5.	Aniket Maiti	Assistant Professor

#### S. 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

#### T. DEPARTMENTAL RESEARCH INITIATIVES

	INT.	JOURNAL		ВООК	JTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	03	-	-	-	-	03
Student- Faculty	-	-	-	-	-	-

#### 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	10
GROUPS	
NO OF PROJECT	10
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	<b>Details of IPR</b>	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 available in department are also shared among students for additional knowledge.

#### 4. Motivating students for Research publication along with Faculties

Students are encouraged for publishing the paper I 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.

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 npleting the course in the year	Remarks
1.	Employability Enhancement Program (4TH YR)	30	135	130	
2.	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning (3RD YEAR)	30	126	116	
3.	Programming for complex problem solving using pseudocode (3RD YEAR)	30	126	117	
4.	Programming with Python	30	126	120	

#### Z. VALUE ADDED COURSES OFFERED

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 in 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 teachers an
	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.
OPPORTUNITI	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.
<b>CHALLENGES:</b>	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 2016-17, 2017-18 & 2018-19

Clause No.	Score in 5 point sca	Remarks	
	Internal Auditor	External Auditor	
В	4	4	
С	3	4	
D	4	57	
E	4	5	
F	3	4	
G	4	57	
Н	4	5	
I	4	4	
J	4	5	
К	3	4	
L	4	4	
Μ	. 4	ý	
N	4	5	
0	3	4	
Р	0	0	
Q	3	4	
R	3	Ý	
S	4	5	
Т	4	4	
U	2	3	
V	4	4	
W	0	Ó	
Х	0	0	
Y	4	5	
Z	4	4	
AA	4	5	
TOTAL	84	100	DF

	Name	Designation	Affiliation	CH Signature
External Auditor	Da Dipankal Chakrava	by Professor	Jadaupur Unive	1 1 06 12 W
Internal Auditor	DR. ABHIJIT PATRA	ASSOCIATE PROF.	TINT	the second
Internal Auditor	DR. SANTANU DUARI	ASSISTANT PROF	TINT	Chang- Elalum
<b>IQAC</b> Coordinator	DR.T.K. NANDI	ASSOCIATE PROF.	TINT	- ant Ch
HoD	DR. T.K. NANDI	ASSOCIATE PROF.	TINT	A. 6. 2.2019
Director	DR. R.T. GOSWAMI	PROFESSOR	TINT	Rippin

Comments of the auditor: The different compares exhibited and presented yieldester A codomic, the are found to be in a der. A codomic, the are found to be in a der. 2 1. DR. ABHIJIT PATRA Name and Signature of Internal Auditors DR. SANTANU DUARI Santans Broni 6108.8.0 Name & Signature of the IQAC Coordinator DR. TAPAS KUMAR NANDI 6.2.2019 PROF. DR DEPUBLICATION CALLANCE RAVER TY Name & Signature of The HOD Dr. Tabaskumar Nandi - K. W. - 6/02/2020 TKGP) GOLD MEDALIST Prof. (Dr.) Tapas Kumar Nandi Behne International New Town 907991/91792/1920 1924-06, AA-1, New Town, Rajanat, Kol. - 156 H,O,D, Machanical Engineering 06 02 2000

# ACADEMIC ADMINISTRATIVE AUDIT

## AY - 2018-2019

# 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)				n			
Name of Programme:	<b>B.</b> T	B. Tech						
Academic year	2018-19							
Student Intake	60 X 3yrs = 180							
No. of enrolled student	167							
	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**

Teaching					
Professors	Associate Professors	Assistant Professors	Total		
0	0	10	10		

#### C. STUDENT FACULTY RATIO: - 16.7:1

#### 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
			Cathod Ray Oscilloscope	20MHz, METRAVI OS- 5020	27/09/2013
1	Electronic Measurement &	28	Trainer Kit for V to I and I to V Converter		27/09/2014
			Patch Coard with a pair of Jack		27/09/2015
			Colour 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
			D.C Regulated Power Supply	0-16V/0-2A, MAKE-APLAB LD1602	27/09/2018
			Dc Regulated Power Supply,	0-22V/ 1A DUAL	27/09/2028
			Dead weight pressure gauge tester	0.4 to 40 kg	20/12/2008
			Muffle Furnace	1KW	20/12/2008
		n 20	RTD	PT 100	20/12/2008
2	Industrial Instrumentation		PID controller		20/12/2008
	Lab		Orifice plate	1 Inch	20/12/2008
			DP transmitter		20/12/2008
			Pump	0.5 HP	20/12/2008
			Storage Tank	100 Lit, 200Lit	20/12/2008
			Rotameter		20/12/2008
			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
2	Sensors and Transducers Lab	20	proximity sensor Kit		22.02.2014
5	Sensors and Transducers Lab	20	LVDT Trainer Kit	SIL-212	04/03/2008
			LDR trainer Kit	SIL-207	04/03/2008
			Digital Multimeter	CIE-122	04/03/2008
			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
	Process Control Lab	20	Thyristor power controller		07/11/2009
5			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
			Electromagnetic Flowmeter		09/11/2009
			Storage Tank	225 Lit, 375 Lit	09/11/2009
			Pump	0.5 Hp, 220V	10/02/2016
			Ultrasonic Level Transmitter	943-F4Y- 2DLD0-300E	09/11/2009
			Electrical Actuator motorized valve	MLT7421	09/11/2009
			impeller		09/11/2009
			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

			De-Sauty bridge		03/10/12
			Power measurement using ct & pt		03/11/12
			Wattmeter calibration using dc potentiometer		03/12/12
			PMMC type wattmeter		03/13/12
6	Electrical Instrumentation and	20	PMMC type ammeter		03/14/12
	Measurement Lab		PMMC type voltmeter		03/15/12
			Multimeter		03/16/12
			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
			Voltage telemetry WITH LEVEL MEASURING SYSTEM		20/11/2009
			PVC TANK WITH VARIABLE FLOAT LEVEL SENSOR		20/11/2009
			Current TRANSMITTER TRAINER KIT		20/11/2009
	Telemetry and Remote	22	Current RECEIVER TRAINER KIT		20/11/2009
7	Control Lab		RTD WITH OVEN	PT-100	20/11/2009
			FDM TRAINER KIT		20/11/2009
			Frequency telemetry TRAINER KIT		20/11/2009
			Load CELL		20/11/2009
			Voltage TO frequency TRANSMITTER KIT		20/11/2009
			Frequency TO voltage RECEIVER KIT		20/11/2009
			PCM TRAINER KIT		20/11/2009
			LVDT		20/11/2009
			VCO & PLL TRAINER KIT		20/11/2009

			DAC MODULE		20/11/2009
			Computer	Core 2 Duo	20/11/2009
			Mux/DeMux TRAINER KIT		
			Bread BOARD		
			LCD (jhd162a)	16 X 2	19/08/2014
			Potentiometer	10K, 5K	19/08/2014
			Capacitor	1000 <b>µ</b> F, 470 <b>µ</b> F,	19/08/2014
				10 <b>µ</b> F, , 1 <b>µ</b> F, 30pF	05/09/2018
			Stripper		05/03/2014
			Solder wire		14/08/2014
	8 Instrumentation and Control Design Lab & Project Lab		Soldering iron		14/08/2014
			Soldering paste		14/08/2014
8		22	Single strand wire		05/03/2014
			Pin CONNECTOR	2 Pin, 3 Pin, 4 Pin, 5 Pin, 6 Pin, 8 Pin, 9 Pin	05/09/2018
			Bar STRIP CONNECTOR	10/40	05/09/2018
			Jumper wire CONNECTOR	M-M	05/09/2018
			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
			Single STRING WIRE		02/01/2019
			Capacitor	10microF, 1 microF, 300pF	07/09/2018
			Resistor	470K/1W, 100 ohm/1W	05/02/2019
			X-RATE CAPACITOR	0.47microF/400v	05/02/2019
			IC	IC-555, IC-741	05/09/2018
			LCD	(16X2)	02/01/2019
			Potentiometer	10K	25/01/2019

### F. DETAILS OF ICT TOOLS: Projector, Computer with LAN, Moodle.

#### G. FACULTY DETAILS

S.N o	Name of the Faculty Membe r	Highest Qualification With Specialization	Experienc e (Years)	Roles & Responsibilities	Designatio n	Date of Joinin g
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	HOD	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,Mentoring data Upload, NBA support, To Guide the department both academic and administrative Member in :- 1. Anti ragging Committee	Assistant Professor	18-Feb-8
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-9

4	Suvobroto Banerjee	M.Tech in MICROELECTRONIC S & 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
6	Abhijit Kumar Bhagat	M.Tech in Control & Instrumentation	11	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, 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
10	Priya Singha Roy	M.Tech in Control & Instrumentation	6	Guidance to students related to Projects, Training & Placement.	Assistant Professor	16-Jul-13

#### 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		From Core Dept				pt	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
Ι									
II									
III	8	7	20	4	2	8	1	2	5
IV	4	4	12	10	6	17			
V	6	6	17	3	5	8	2	3	10
VI	9	11	26	1	1	2	1	2	5
VII	5	5	16	2	4	10	1	1	3
VIII	5	6	21	1	1	2			

### J. WORKLOAD DETAILS:

SI. No	No. o Name of the Name(s) of the Cours		. of urses	No. of es Periods		Credits	Work Load	Completion Status	
10	faculty member	Theory/Lab	Т	Р	Т	Р		Louu	
	Indrajit Pandev	Digital Electronic Circuits EC(EI 301)	1		2		3	2	Completed
	Indrajit Pandev	Digital Electronic Circuits Lab EC(EL 391)		1		6	2	6	Completed
	Indrajit Pandey	Control Theory EI 502	1		3		4	3	Completed
	Indrajit Pandey	Control Theory Lab EI 593 (EE)		1		6	2	6	Completed
	Indrajit Pandey	Project-1[EI-792]		1		4	2	4	Completed
	Indrajit Pandey	Microprocessor & Computer	1		2		4	2	Completed
	Indrajit Panday	Architecture (E1402) Microprocessor & Computer		1		6	2	6	Completed
	Indrajit Pandey	Advanced Microprocessors & Microcontrollers(EI603)	1		2		4	2	Completed
	Indrajit Pandey	Power Electronics Lab (EI891A)		1		6	2	6	Completed
	Indrajit Pandev	Project - 2[EI-893]		1		7	6	7	Completed
	Rajib Barui	Circuit Theory and Networks EE(EI) 301	1		2		4	2	Completed
	Rajib Barui	Circuit Theory and Networks Lab EE(EI)391		1		6	2	6	Completed
	Rajib Barui	Control System(EC503)	1		4		3	2	Completed
	Rajib Barui	Control System Lab(EC593)		1		6	2	3	Completed
	Rajib Barui	Project-1[EI-792]		1		2	2	2	Completed
	Rajib Barui	Electronic Instrumentation & Measurement (EI602)	1		3		4	3	Completed
	Rajib Barui	Seminar (EI681)		1		3	2	3	Completed
	Rajib Barui	Electronic Measurement & Instrumentation(EI)(EC605C)	1		3		3	3	Completed
	Rajib Barui	Electronic Measurement & Instrumentation Lab 0(EC695C)		1		6	2	6	Completed
	Rajib Barui	Project - 2[EI-893]		1		10	6	10	Completed
	Nantu Das	Industrial Instrumentation EI 501	1		4		4	4	Completed
	Nantu Das	Industrial Instrumentation Lab EI 591		1		6	2	6	Completed
	Nantu Das	Sensors and Transducers Lab EI 592		1		6	2	6	Completed
	Nantu Das	Project-1[EI-792]		1		4	2	4	Completed

Nantu Das	Sensors & Transducers(EI401)	1		4		4	4	Completed
Nantu Das	Electrical Measurement & Instrumentation Lab(EI491)		1		6	2	6	Completed
Nantu Das	Embedded System EI802B(EC)	1		2		3	2	Completed
Nantu Das	Instrumentation & Control Design Lab(EI892)		1		6	2	6	Completed
Nantu Das	Project - 2[EI-893]		1		6	6	6	Completed
Abhijit Kr Bhagat	Circuit Theory and Networks EE(EI) 301	1		2		4	2	Completed
Abhijit Kr Bhagat	Circuit Theory and Networks Lab EE(EI)391		1		6	2	6	Completed
Abhijit Kr Bhagat	Analog Electronic circuits[EC(EE) 301]	1		4		3	4	Completed
Abhijit Kr Bhagat	Analog & Digital Electronic circuit Lab[EC(EE) 391]		1		6	2	6	Completed
Abhijit Kr Bhagat	Project-1[EI-792]		1		2	2	2	Completed
Abhijit Kr Bhagat	Microprocessors and Computer Architecture(EI402)	1		2		4	2	Completed
Abhijit Kr Bhagat	Microprocessor Lab(EI492)		1		6	2	6	Completed
Abhijit Kr Bhagat	Process Control Lab(EI691)		1		6	2	6	Completed
Abhijit Kr Bhagat	Non Conventional Energy System (EI605D)	1		4		3	4	Completed
Abhijit Kr Bhagat	Seminar EI681		1		3	2	3	Completed
Abhijit Kr Bhagat	Project - 2[EI-893]		1		3	6	3	Completed
Joyita Biswas	Analog Electronic Circuits EC(EI)302	1		4		3	4	Completed
Joyita Biswas	Analog Electronic Circuits Lab EC(ED392		1		6	2	6	Completed
Joyita Biswas	Optoelectronics & Fibre Optics EL 503A	1		4		3	4	Completed
Joyita Biswas	Sensors and Transducers Lab		1		6	2	6	Completed
Joyita Biswas	Project-1[EI-792]		1		2	2		Completed
Joyita Biswas	Digital Signal Processing(EC)(EI605A)	1		4		3	4	Completed
Joyita Biswas	Electrical Measurement & Instrumentation Lab(EI491)		1		6	2	6	Completed
Joyita Biswas	Electronic Measurement & Instrumentation Lab EI692		1		6	2	6	Completed
Joyita Biswas	Project - 2[EI-893]		1		4	6	4	Completed
Suvobroto Baneriee	Process Control II EI 703	1		3		4	3	Completed

	Suvobroto	Digital Electronic Circuits		1		3	2	3	Completed
	Banerjee	Lab EC(EI 391)							1
	Suvobroto	Analog & Digital Electronic		1		6	2	6	Completed
	Banerjee	circuit[EC(EE) 391]							-
	Suvobroto	Digital Electronic circuit[EC(EE)	1		3		3	3	Completed
	Banerjee	302]							-
	Suvobroto	Project-1[EI-792]		1		2	2	2	Completed
	Banerjee	5 6 3							1
	Suvobroto	Process Control-I(EI601)	1		4		4	4	Completed
	Baneriee								1
	Suvobroto	Process Control Lab(EI691)		1		6	2	6	Completed
	Baneriee								1
	Suvobroto	Seminar (EI681)		1		3	2	2	Completed
	Baneriee								1
	Suvobroto	Project-2(EI893)		1		8	6	8	Completed
	Baneriee	5				_	-	-	1
	Soumvaiit	Data Structure		1		3	2	3	Completed
	Datta	Lab EI 594A				-		_	
	Soumvaiit	Microprocessors &	1		4		4	4	Completed
	Dutta	Microcontrollers (CS502)	-		-				mproce
	Soumvaiit	Microprocessors &		1		6	2	6	Completed
	Datta	Microcontrollers Lab		1		Ŭ	2	C C	compieted
	Duttu	(CS592)							
	Soumvaiit	Telemetry & Remote Control	1		4		4	4	Completed
	Datta	FI 701	1		ľ				compieted
	Soumvaiit	Telemetry & Remote Control		1		6	2	6	Completed
	Datta	Lab FI 791		1		Ŭ	-	C	compieted
	Soumvaiit	Project-1[EI-792]		1		3	2	3	Completed
	Datta			1		5	2	5	compieted
	Soumvaiit	BioMedical	1		4		3	4	Completed
	Datta	Instrumentation(EI604A)	-		l'		5		compieted
	Soumvaiit	Advanced Microprocessors &		1		6	2	6	Completed
	Datta	Microcontrollers Lab(EI693)		1		Ŭ	2	C C	compieted
	Soumvaiit	Embedded Systems(EI	1		2		3	2	Completed
	Datta	802B(EC))	-		-		5	<b>–</b>	compieted
	Soumvaiit	Instrumentation & Control		1		6	4	6	Completed
	Datta	Design Lab(EI892)		1		Ŭ		C C	compietea
	Soumvaiit	Project-2(EI893)		1		6	6	6	Completed
	Datta			1		Ŭ	Ŭ	C C	compietea
	Savani	Electrical Measurement &	1		4		4	4	Completed
	Sengunta	Instrumentation EI 301	1		Ľ				compretea
	Savani	Industrial Instrumentation		1		6	2	6	Completed
	Sengunta	Lab EI 591		-		Ũ	Γ	0	mproce
	Savani	Analytical Instrumentation EI	1		2		4	2	Completed
	Sengupta	702	-					Γ	mproce
	Savani	Microprocessors &		1		6	2	6	Completed
	Sengunta	Microcontrollers Lab		-		Ŭ	_	0	compretea
	Sengapta	(CS592)							
	Savani	Project-1[EI-792]		1	+	4	2	4	Completed
	Sengunta				1	1	<b>–</b>	ľ	- omprotod
<u> </u>	Savani	Advanced Microprocessors &	1		2		4	2	Completed
	Sengunta	Microcontrollers(FI603)	*	1	Ĩ			Г	Completed
	Savani	Electronic Instrumentation &	1		2		4	2	Completed
	Sengunta	Measurement(EI602)	1		۲			Г	

Sayani	Advanced Microprocessors &		1		6	2	6	Completed
Sengupta	Microcontrollers Lab(EI693)							
Sayani	Electronic Instrumentation		1		6	2	6	Completed
Sengupta	and Measurement Lab[EI-							
	692]							
Sayani	Project-2(EI893)		1		3	6	3	Completed
Sengupta								
Samrat	Digital Electronic Circuits	1		2		3	2	Completed
Banerjee	EC(EI 301)							
Samrat	Digital Electronic Circuits		1		6	2	6	Completed
Banerjee	Lab EC(EI 391)							
Samrat	Analog & Digital	1		3		3	3	Completed
Banerjee	Electronics CS-301(IT)							
Samrat	Analog & Digital		1		6	2	6	Completed
Banerjee	Electronics Lab CS-391(IT)							
Samrat	Non Destructive Testing &	1		4		3	4	Completed
Banerjee	Ultrasonic Instrumentation							
	EI 604C							
Samrat	Power Electronics(EI801A)	1		4		3	4	Completed
Banerjee								
Samrat	Power Electronics Lab(EI		1		6	2	6	Completed
Banerjee	891A(EE))							
Samrat	Project-2(EI893)		1		7	6	7	Completed
Banerjee								
Priya Singha	Analog Electronic Circuits		1		6	2	6	Completed
Roy	Lab EC(EI)392							
Priya Singha	Analytical Instrumentation EI	1		2		4	2	Completed
Roy	702							
Priya Singha	Project-1[EI-792]		1		6	2	6	Completed
Roy								
Priya Singha	Instrumentation & Control		1		6	4	6	Completed
Roy	Design Lab (EI 892)							
Priya Singha	Seminar(EI 681)		1		3	3	3	Completed
Roy								
Priya Singha	Project-2(EI893)		1		12	6	12	Completed
Roy								

#### K. COURSE LESSON PLAN PREPARATION AND VERIFICATION:

	Ι	II	III	IV	V	VI	VII	VIII	Total
No. of course lesson plans prepared	0	0	3	2	4	5	2	1	17
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	3	2	4	5	2	1	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	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

SI. No.	Name of the Mentor	Roll No	No of Mentees	No of mentoring sessions	Remark
1.	Indrijit Pandey	18705517001- 18705517006 18705517043	7	9	The academic problems and performance of the students are identified along with their mental well-being and based on it further actions are taken.
2.	Rajib Barui	18705515001- 18705515009 18705516034- 18705516040	9+7	18	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
3.	Nantu Das	18705515027- 18705515034 18705516026- 18705516033 18705517021- 18705517029 18705517046	8+8+8	30	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
4.	Suvobroto Banerjee	18705515010- 18705515017 18705516010- 18705516017	8+8	20	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
5.	Joyita Biswas	18705515035- 18705515043 18705516018- 18705516025 18705517030- 18705517035, 18705517047	8+8+7	32	All students were found to be in good mental well0being.Few students were identified as slow learners. Remedial classes were arranged as per requirement
6.	Abhijit Kumar Bhagat	18705515018- 18705515026 18705516050- 18705516056	8+7+8	31	All students were found to be in good mental well-being. Few students were identified as slow learners. Remedial classes were arranged as per

		18705517050- 18705517056 18705517049			requirement
7.	Soumyajit Datta	18705515044- 18705515051 18705516002- 18705516009 18705517036- 18705517042 18705517048	8+8+8	28	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
8.	Sayani Sengupta	18705515052- 18705515058,18705516001 18705516041- 18705516049 18705517014- 18705517020 18705517045	8+8+8	28	The academic problems and performance of the students are identified along with their mental well-being and based on it further actions are taken.
9.	Samrat Banerjee	18705517007- 18705517013 18705517044	8	11	The academic problems and performance of the students are identified along with their mental well being and based on it further actions are taken.

#### 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 committee, 5. Hostel committee, 6. Disciplinary committee
2	Rajib Barui	1. Anti ragging Committee
3	Nantu Das	1. Routine Committee
4	Suvobroto Banerjee	1. Admission cell(Core committee), 2. T&P Cell
5	Abhijit Kumar Bhagat	1. Entrepreneurship cell, 2. Anti-ragging Committee

#### 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	1 (One-Day seminar on "Software and Industrial Automation" conducted by Dept. of AEIE, TINT)	l Day	Inter College	25
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	2			
FDP	3	21,28,21	Intra College	
Seminar	2	1,1	Inter College	
Workshop	9	1,1,1,1	National, National, Inter College, 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	Student Project Innovation Competition and Exhibition (SPICE)	Techno International New Town	Somraj Banerjee, MD. Khalid, Subhadeep Paul, Devyank Singh		Intra College
2	4 <sup>th</sup> Inter College Competition on Prototype Design for Mankind (4th ICCPDM)	Heritage Institute of Technology	Somraj Banerjee, MD. Khalid, Subhadeep Paul, Devyank Singh, Tanishka Das, MD.Zidan Hossaine , Anit Vishwakarma , Pushpal Dey , Nitin Kumar		Inter College

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

#### R. NO. OF STUDENTS PLACED: 32

#### 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	воок	AUTHORED	TOTAL
	CONFERENCE	SCOPUS	SCI/eSCI	CHAPTER	BOOK	
Faculty only	1		1			2
Student-Faculty	1					1

#### 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	8
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. 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.

#### 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 coursein the year	Remarks
1.	Employability Enhancement Program	30 Hrs	57	57	12.06.2018 - 22.06.2018
2.	Training programme on Quantitative aptitude, Verbal ability and Logical reasoning	30 Hrs	54	54	12.06.2018 - 22.06.2018
3.	Programming for complex problem solving using pseudocode	30 Hrs	54	54	25.06.2018 - 06.07.2018
4.	Statistical Analysis using Python	30 Hrs	54	54	02.01.2019 - 12.01.2019
5.	Data Analysis, Visualization And Scientific Computation With Matlab	30 Hrs	38	38	12.06.2018 - 22.06.2018

#### 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 so good advertising of private or undertaking automation companies in India. The syllabus is not enough to get proper prospectus in software-based companies.
OPPORTUNITIES:	The syllabus is structured in such a way that students can make their career in both electronics, instrumentation and software-based companies. For PSU jobs, higher studies one can appear both in Electronics & Communication & Applied Instrumentation in GATE Examination. More opportunities are yet to come in the modern era.
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.):	20	16-	201	9
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Clause No.	Score in 5 point so	ale (Full Marks 130)	Remarks
	Internal Auditor	External Auditor	
В	3'5	3,5	
С	5	5.0	
D	4	3.8	
E	4.5	3.2	
F	4	3, 4	
G	4	3.8	
н	5	5.0	
1	5	5.0	
J	4:5	4.3	
К	4	3.8	
L	4	4.0	
М	5	<b>A</b> . 9	
N	3	1.2/	
0	3	8:5	
Р	2'5	3.3	
Q	2	1.3	
R	2.5	3.8	
S	4	4.0	
Т	4	A.0	
U	3	1.5	
v	35	32	
W	0		
Х	0	_	
Y	4	3.8	
Z	45	4.2	
AA	4	3.8	
TOTAL	92.5	87.3	

	Name	Designation	Affiliation	Signature
External Auditor	CHANSCHAL DEY	ASSTC. PRAF.	C-N.	Jamo.
Internal Auditor	Nanth Das	Assistant Professor	AFIE, TINT	Nanta Das
Internal Auditor	Raji & Barni	Asst. Prof.	TINT	Brit
IQAC Coordinator	Dr. Tapas. Kumar None	"Associate prof.	TINT	-z.t day
HoD	Indroisit Pander	Assistant Roof	TINT	Bandy .
Director	Dr. R.T. 984WAWI	Director	TINT	(imme 1949

Associate Professor Department of Applied Physics University of Calcutta

## ACADEMIC AUDIT REPORT REMARKS

## (AY 2018-19)

B. Faculty/ Staff Strength	Adequate to meet standard
C Student Frank D .:	Consistantly maintaining in 1 with
C. Student Faculty Ratio	Consistently maintaining required ratio
D. No Of Laboratories	Lab courses are equipped in 5 labs
<ul> <li>E. Details of the Equipments in Labs</li> </ul>	Need additional instruments/ equipments/ software kits
F. Details of ICT Tools	Projector, Computer with LAN, Moodle
G. Faculty Details	Highly qualified & experienced faculty members with
	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
1. Course Delivery	Courses are taught by departmental its own faculty as well as faculties from other corresponding departments. Study materials re being given to students.
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	Faculties being in different roles are assigned with various
Responsibility	committees such as student welfare (Clubs, Sports, Cultural), Anti-Ragging, Disciplinary, Placement Cell DAC IIC etc.
N. Expert Talk/FDP/ Seminar/ Conference/ Workshop organized	Conducted seasonally
O. Expert Talk/FDP/ Seminar/ Conference/ Workshop Attended	Faculties are encouraged to attend those for improvisation of skills that benefit their own & the students
P. Achievements of the Students/	Students from AEIE participated in various inter college
Faculty Members in Extra/ Co-	technical event competition, extracurricular & honored by
curricular activities	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 five members. Conduction of DAC meeting along with keeping record are maintained.
T. 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.
U. Departmental research initiatives	Faculties have initiated their research work as their lagging efforts were under scanner
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	Not yet taken
X. Details of IPR	NIL
Y. Best Practices Followed in the Department	<ol> <li>Students are being motivated to construct innovative projects from 2nd year beyond their curriculum and to participate in different technical competitions.</li> <li>To make the students prepared for documenting their respective work as Paper presentation (Conference/Journal).</li> <li>To encourage students to take part in extracurricular activities inter college &amp; intra college level.</li> </ol>



Comments of the auditor:

Name and Signatures of Internal Auditors

1. Rajerb Barm'

2. Nanta Dos NANTU DAS



Name & Signature of the IQAC Coordinator

Dr. Tapas. Kumar Nowdi

Indrigit balley Indrojit lander 12.02.2019

Name & Signature of the HoD