

Annual Report 2017-18

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SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY, SONARPUR

PREAMBLE

Department of Electronics The Å Communication Engineering of Swami Vivekananda Institute of Science & Technology, Sonarpur has started its glorious journey in the year 2008. The newly built department has the exposure in focusing the students' need in imparting excellence and need based technical education for building up prospective career of the students.

The department has the mission to build up the students' need with beautiful ambience, highly qualified faculty, a modern high-tech laboratory, and well stocked books on Electronics & Communication Engineering subjects in the library and set up a placement cell keeping in view of the career opportunity of the students coming out in the year 2017.

On this year remarkable interest in higher studies, attending the conferences and seminars, paper publications etc. have been observed among the faculty members.

Availability of faculty in context to related subjects is always scarce; however, two new faculties has already joined in which one of them is a research scholar from University of Kolkata. Further action has already been initiated to recruit faculties as needed.

In modernization program, Embedded Systems laboratory has been setup. Some of our students are given hands-on training by our faculty Mr. Raju Paul and Mr. Sayantan Talukdar. On this year, a noticeable improvement in students' attendance is observed. Many students of 2^{nd} year and 3^{rd} year have achieved more than 90% attendance. Students' performance in semester examinations is also on the higher side.

In regard to future placement, all students of 4th year are doing training programs at various Companies. It is expected that reputed companies would come for campus recruitment in due course.

Expecting better achievements during the ensuing years to come.

Instítutíon Name: Swamí Vívekananda Instítute of Scíence &Technology, Sonarpur

1.0 NAME OF THE DEPARTMENT: Electronics & Communication Engineering

2.0 YEAR OF STARTING OF THE PROGRAMME: 2008

3.0 AICTE APPROVAL DETAILS OF THE DEPARTMENT:

- (a) Date of first approval by AICTE with reference number (for 90 seats)
 Reference : 06/ 02/ WB/ ENGG /2008 /04
 Date : 30th June, 2008
- (b) Date of approval by AICTE for current academic year with reference number Reference : Eastern/ 1-3509290445/ 2018 /EOA Date : 04 April, 2018
- (c) Approval by West Bengal University of Technology for the current academic year with reference number
 Reference : 241/ B. Tech/ Affiliation/ 2018-19
 Date : 15th May, 2018

4.0 PROGRAMME DETAILS: *B-Tech in Electronics & Communication Engineering*

- (a) Nature of Programme: Full time
- (b) Duration: 4 years
- (c) Sanction Intake: 90
- (d) Year wise students:

B. Tech (2017-18)	1 st Year	2 nd Year	3 rd Year	4 th Year
No of students	66	91	96	66

Lateral entry –20% in 3rd Semester

5.0 COURSE STRUCTURE:

(As per Affiliating University)

List of Subjects

Sl.	Subject Code	Subject
No.		
		First Semester
1	HU101	English Language& Technical Communication
2	PH 101	Physics – 1
3	M101	Mathematics-1
4	ES101	Basic Electrical & Electronics Engineering – 1
5	ME101	Engg. Mechanics
6	PH191	Physics – 1Laboratory
7	ES191	Basic Electrical & Electronics Engineering-1Laboratory
8	ME192	Workshop Practice
9	HU181	Language Laboratory
10	XC181	Extra-Curricular Activities (NSS/NCC/NSO etc.)
	S	econd Semester
11	CS201	Basic Computation & Principles of Computer Programming
12	CH201	Chemistry-1
13	M201	Mathematics-2
14	ES201	Basic Electrical &Electronic Engineering-II
15	ME201	Engineering Thermodynamics & Fluid Mechanics
16	CS291	Basic Computation & Principles of Computer ProgrammingLaboratory

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17	CH291	Chemistry-1Laboratory	$\overline{}$
18	ES291	Basic Electrical & Electronic	
10		Engineering- IILaboratory	4
19	ME292	Basic Engg Drawing & Computer Graphics	
]	Third Semester	
20	M (CS) 301	Numerical Methods	
21	M302	Mathematics-III	
22	EC301	Circuit Theory & Networks	
23	EC302	Solid State Device	
24	EC 303	Signals & Systems	
25	EC 304	Analog Electronic Circuits	
26	M (CS)391	Numerical Methods Laboratory	
27	EC 391	Circuit Theory & Network Lab	
28	EC 392	Solid State Devices	
29	EC 393	Signal System Lab	
30	EC 394	Analog Electronic Circuits Lab	
	F	ourth Semester	
31	HU-401	Values and Ethics in Profession	
32	PH 401	Physics-II	
33	CH-401	Basic Environmental Engineering& Elementary Biology	
34	EC-401	EM Theory & Transmission Lines	
35	EC-402	Digital Electronic & Integrated Circuits	
36	HU-481	Technical Report Writing & Language Lab Practice	
37	PH-491	Physics-II Laboratory	
38	EC-491	EM Theory & Transmission Lines Laboratory	

39	EC-492	Digital Electronic & Integrated Circuits Laboratory	
]	Fifth Semester	
40	HU-501	Economics for Engineers	
41	EC-501	Analog Communication	
42	EC-502	Microprocessors & Microcontrollers	
43	EC-503	Control System	
44	EC-504	Elective I	
45	EC-591	Analog Communication	
46	EC-592	Microprocessors & Microcontrollers	
47	EC -593	Control System	
48	EC -594	Elective I Laboratory	
	S	Sixth Semester:	
49	HU-601	Principles of Management	
50	EC-601	Digital Communications	
51	EC-602	Digital Signal Processing	
52	EC-603	Telecommunication System	
53	EC-604	Elective II	
54	EC-605	Elective III	
55	EC-691	Digital Communications Laboratory	
56	EC-692	Digital Signal Processing Laboratory	
57	EC-693	Elective III Laboratory	
58	EC-681	Seminar	
	Se	eventh Semester	
59	EC-701	Wireless Communication & N/W	
60	EC-702	Microelectronics & VLSI Designs	
61	EC-703	Elective IV	
62	EC-704	Elective V	
63	EC-705	Elective VI	
64	HU-781	Group Discussion	
65	EC-792	VLSI Design laboratory	
66	EC-793	Elective IV Laboratory	
67	EC-795	Elective VI Laboratory	
68	EC-781	Seminar onIndustrial Training	
69	EC-782	Project Part I	

	Ε	ighth Semester	
70		Organizational Behavior / Project	
/0	ΠυδυΙΑ	Management	
71	EC-801	Elective VII	
72	EC-802	Elective VIII	
72	EC-881	Design Lab / Industrial problem	
/3		related practical training	
74	EC-882	Project Part II	
75	EC-893	Grand Viva	



6.0 COURSE STRUCTURE:

List of Subjects

First Semester:

	Theory	C	ino: pq	act er w	hours eek	Credit			Marks			
Code	Subject	L	Т	Ρ	Total	Point	UT1/2	Attendance	Assig <mark>n</mark> r	ment	Total Internal	Total External
HU101	ENGLISH LANGUAGE & TECHNICAL COMMUNICATION	2	0	0	2	2	15	5	10		30	70
PH101	PHYSICS-1	3	1	0	4	4	15	5	10		30	70
M101	MATHEMATICS-1	3	1	0	4	4	15	5	10		30	70
ES101	BASIC ELECTRICAL & ELECTRONICS ENGINEERING – 1	3	1	0	4	4	15	5	10		30	70
ME 101	ENGG. MECHANICS	3	1	0	4	4	15	5	10		30	70
	Total Theory				18	18		14				
	Practical	Contact hours per week			hours eek	Credit Point	Marks					
Code	Subject	L	Т	Ρ	Total		i.	Total Inte	ernal	Total	External	TOTAL
PH191	PHYSICS	0	0	3	3	- 3	, LUS	40			60	100
ES191	BASIC ELECTRONIC ENGINEERING	0	0	3	3	3		40			60	100
ME192	Workshop Practice	1	0	3	4	4		40			60	100
т	otal Practical				10	10						
	SESSIONAL	C	Cont pe	act r w	hours eek	Credit Point	NONE		м	larks		
		L	т	Ρ	Total		NONE	Total Inte	ernal	Total	External	TOTAL
HU181	LANGUAGE LABORATORY	0	0	2	2	2		40			60	100
XC181	EXTRA CURRICULAR ACTIVITIES (NCC/NSS/NSO etc.)	0	0	2	2	2		40			60	100
	Total of Sessional				4	4						
	Total of Semester				32	32						

Second Semester:

	Theory	С	onta	ict h wee	ours per ek			NONE Marks				
Code	Subject	L	Т	Р	Total	Credit Point	UT1/ 2	Attendance	Assignment	Total Internal	Total Externa 1	
CS 201	BASIC COMPUTATION & PRINCIPLES OF COMPUTER PROGRAMMING	3	1	0	4	4	15	5	10	30	70	
CH201	CHEMISTRY	3	1	0	4	4	15	5	10	30	70	
M201	MATHEMATICS-2	3	1	0	4	4	15	5	10	30	70	
ES201	BASIC ELECTRICAL & ELECTRONIC ENGINEERING-II	3	1	0	4	4	15	5	10	30	70	
ME201	ENGINEERING THERMODYNAMIC S & FLUID MECHANICS	3	1	0	4	3	15	5	10	30	70	
	Total Theory			1	20	20						
	Practical	Contact hours per week			ours per ek	Cuadit		0.0	Marks			
Code	Subject	L	Т	Р	Total	Point	To	tal Internal	Total Externa	1 TO	DTAL	
CS291	BASIC COMPUTATION & PRINCIPLES OF COMPUTER PROGRAMMING	0	0	2	3	3		40	60		100	
CH291	CHEMISTRY	0	0	3	3	3		40	60		100	
ES291	BASIC ELECTRICAL ENGINEERING	0	0	2	3	3		40	60		100	
ME292	BASIC ENGG DRAWING & COMPUTER GRAPHICS	1	0	3	4	3		40	60		100	
1	Fotal Practical	0	0		10	6						
]	Fotal Semester				28	21						

Third Semester:

,	Гheory	0	Con po	tact er w	t hours veek		Marks					
Code	Subject	L	Т	P	Total	Credit Point	UT1/2	Attendance	Assignment	Total Internal	Total External	
M (CS) 301	NUMERICAL METHODS	2	1	0	3	2	15	5	10	30	70	
M302	MATHEMATI CS-III	3	1	0	4	4	15	5	10	30	70	
EC 301	CIRCUIT THEORY & NETWORKS	3	0	0	3	3	15	5	10	30	70	
EC 302	SOLID STATE DEVICE	3	0	0	3	3	15	5	10	30	70	
EC 303	SIGNALS & SYSTEMS	3	1	0	4	4	15	5	10	30	70	
EC 304	ANALOG ELECTRONIC CIRCUITS	3	1	0	4	4	15	5	10	30	70	
Tot	al Theory				20	20			.0-			
	Practical		Contact hours per week				a second s	and the second se				
Р	ractical	C	ont pe	act r w	nours eek	io.			Marks			
P Code	ractical Subject	C L	ont pe	r w P	rours eek Total	Credit Point	Total	Internal	Marks Total Ex	ternal	TOTAL	
P Code M (CS) 391	ractical Subject NUMERICAL METHODS LABORATOR Y	C L 0	T 0	P 3	Total	Credit Point 2	Total	Internal 40	Marks Total Ex 60	ternal	TOTAL 100	
P Code M (CS) 391 EC 391	ractical Subject NUMERICAL METHODS LABORATOR Y CIRCUIT THEORY & NETWORK LAB	C L 0	T 0	P 3	Total 3	Credit Point 2 1	Total	Internal 40 40	Marks Total Ex 60 60	ternal	TOTAL 100 100	
P Code M (CS) 391 EC 391 EC 392	ractical Subject NUMERICAL METHODS LABORATOR Y CIRCUIT THEORY & NETWORK LAB SOLID STATE DEVICES	C L 0 0	T 0 0	P 3 3	Total 3 2 3	Credit Point 2 1 2	Total	Internal 40 40 40	Marks Total Ex 60 60 60	ternal	TOTAL 100 100	
P Code M (CS) 391 EC 391 EC 392 EC 393	ractical Subject NUMERICAL METHODS LABORATOR Y CIRCUIT THEORY & NETWORK LAB SOLID STATE DEVICES SIGNAL SYSTEM LAB	C L 0 0 0		P 3 2 3 3	Total 3 2 3 3	Credit Point 2 1 2 2 2 2	Total	Internal 40 40 40 40 40 40	Marks Total Ex 60 60 60 60	ternal	TOTAL 100 100 100 100	
P Code M (CS) 391 EC 391 EC 392 EC 393 Tota	ractical Subject NUMERICAL METHODS LABORATOR Y CIRCUIT THEORY & NETWORK LAB SOLID STATE DEVICES SIGNAL SYSTEM LAB	C L 0 0 0 0		P 3 3 3	Total 3 2 3 3 11	Credit Point 2 1 2 2 2 7	Total	Internal 40 40 40 40	Marks Total Ex 60 60 60 60	ternal	TOTAL 100 100 100 100	

Fourth Semester:

	Theory	Со	ntac [.] v	t hou veek	irs per				NONE Marks		
Code	Subject	L	Т	Р	Tota 1	Credit Point	UT1 /2	Attendance	Assignment	Total Internal	Total External
HU-401	Values and Ethics in Profession	3	0	0	3	3	15	5	10	30	70
PH 401	Physics-II	3	0	0	4	4	15	5	10	30	70
СН-401	Basic Environmental Engineering & Elementary Biology	3	0	0	3	3	15	5	10	30	70
EC-401	EM Theory & Transmission Lines	3	0	0	3	3	15	5	10	30	70
EC-402	Digital Electronic & Integrated Circuits	3	1	0	4	4	15	5	10	30	70
Т	Total Theory			-	21	20	8	XA			
	Practical	Contact hours per week				Marks					
Code	Subject	L	Т	Р	Tota 1	Credit Point	his	Total Inter	nal Total Ex	ternal	TOTAL
HU- 481	Technical Report Writing & Language Lab Practice	0	0	3	3	2		40	60)	100
PH- 491	Physics-II Laboratory	0	0	3	3	2		40	60)	100
EC- 491	EM Theory & Transmission Lines Laboratory	0	0	3	3	2		40	60)	100
EC- 492	Digital Electronic & Integrated Circuits Laboratory	0	0	3	3	2		40	60)	100
То	tal Practical				12	8					
То	tal Semester				33	28					

Fifth Semester:

Theory		Co we	onta eek	ct ho	ours per		Marks				
Code	Subject	L	Т	Р	Total	Point	UT1/2	Attendance	Assignment	Total Internal	Total External
HU- 501	Economics for Engineers	3	0	0	3	3	15	5	10	30	70
EC- 501	Analog Communication	3	1	0	4	4	15	5	10	30	70
EC- 502	Microprocessors & Microcontrollers	3	1	0	4	4	15	5	10	30	70
EC- 503	Control System	3	0	0	3	3	15	5	10	30	70
EC - 504	Elective I A. Computer Architecture B. Data structure & C	3	1	0	4	4	15	5	10	30	70
Total Theory 18 18 NONE											
Practica	Practical			Contact hours per week			Marks				
Code	Subject	L	Т	P	Total	Point	Total In	ternal	Total External	Т	OTAL
EC591	Analog Communication	0	0	3	3	2	40		60	10	00
EC592	Microprocessors & Microcontrollers	0	0	3	O310	2	40	1705520	60	10	00
EC593	Control System	0	0	3	3	2	40		60	10	00
EC594	Elective I Lab A. Computer Architecture B. Data structure & C	0	0	3	3	2	40		60	10	00
Total P	ractical				12	8					
Total Se	emester				30	26					



Sixth Semester:

	Theory	C	Cont	act ł we	nours per ek	a 11			Marks		
Code	Subject	L	Т	Р	Total	Point	UT1/2	Attendance	Assignment	Total Internal	Total External
HU- 601	Principles of Management	2	0	0	2	2	15	5	10	30	70
EC- 601	Digital Communications	3	0	0	3	3	15	5	10	30	70
EC- 602	Digital Signal Processing	3	0	0	3	3	15	5	10	30	70
EC- 603	Telecommunication System	3	0	0	3	3	15	5	10	30	70
EC - 604	Elective II A. Antenna Theory & Propagation B. Information Theory & Coding	3	0	0	3	3	15	5	10	30	70
EC- 605	Elective –III A. Object Oriented Programming (IT) B. Programming Language (CSE) C. Electronic Measurement & Instrumentation (EI)	3	0	0	3	3	15	5	10	30	70
,	Total Theory				17	17	NO	1558			
	Practical	Contact hours per week			ours per	Credit	v h05	True	Marks		
Code	Subject	L	Г]]	P Total	Point	Total	Internal	Total Exter	nal	TOTAL
EC691	Digital Communications	0	0		3 3	2		40	60		100
EC692	Digital Signal Processing	0	0		3 3	2		40	60		100
	Elective –III Lab Object Oriented Programming (IT)	0	0		3 3	2		40	60		100
EC695	Programming Language (CSE)	0	0		3 3	2		40	60		100
	Electronic Measurement & Instrumentation	0	0		3 3	2		40	60		100
Т	Total Practical				12	8					
Т	otal Semester				29	25					

Devenue Contact hours Credit NONE													
	Theory		con po	er w	veek	Point			Marks				
Code	Subject	L	Т	Р	Total		UT1/2	Attendance	Assignment	Total Internal	Total External		
EC- 701	Wireless Communication & N/W	3	0	0	3	3	15	5	10	30	70		
EC- 702	Microelectronics & VLSI Designs	3	0	0	3	3	15	5	10	30	70		
EC- 703	Elective-IV A. RF & Microwave Engg. B. Optical Communication & N/W C. Computer Networks D. FPGA & Reconfigurable Computing	3	0	0	3	3	15	5	10	30	70		
EC- 704	Elective-V A. Radar Engg B. Embedded Systems C. Biomedical Instrumentation	3	0	0	3	3	15	5	10	30	70		
EC- 705	Elective-VI A. Artificial Intelligence (CSE) B. Robotics (CSE) C. Data Base Management System D. Power Electronics	3	0	0	3	3	15	5	10	30	70		
	Total Theory		-	-	15	15				1			
	Practical	(Con	tact	hours	Credit	edit Marks						
Code	Subject	L]		P Tot	al	Т	otal Internal	Total	External	TOTA L		
HU781	Group Discussion	0	()	3 3	2	v h v	40		60	100		
EC792	VLSI Design Lab	0	()	3 3	2		40		60	100		
EC- 793	Elective- IV Lab A. RF & Microwave Engg. Lab B. Optical Communication & N/W Lab C. Computer Networks Lab D. FPGA & Reconfigurable Computing lab	0	()	3 3	2		40		60	100		
EC- 795	Elective-VI Lab A. Artificial Intelligence Lab (CSE) B. Robotics lab (CSE) C. Data Base Management System Lab (CSE) D. Power Electronics Lab (EE)	0	()	3 3	2		40		60	100		
EC- 782	Seminar on industrial training.	0	()	3 3	2		40		60	100		
EC- 782	Project part-I	0	()	3 3	2		40		60	100		
	Total Practical Total Semester				1:	5 12) 27	N N	IONE IONE					
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Eighth Semester:

Theory		C	Contact hours per week		Credit	Credit Marks					
Code	Subject	L	Т	Р	Total	Point	UT1/2	Attendance	Assignmen	Total Internal	Total External
HU-801A	Organizational Behaviour	2	0	0	2	2	15	5	10	30	70
EC-801	Elective-VII A. Smart Antenna B. Digital Image Processing C. Satellite Communication & Remote Sensing transmission	3	0	0	3	3	15	5	10	30	70
EC802	Elective-VIII A. Neural N/W & Applications (CSE) B. Material Sc. & Engg (Mat. Sc) C. Renewable Energy (EE) D. Audio & Speech Processing (CSE)	3	0	0	3	3	15	5	10	30	70
Tota	l Theory		1	-	8	8			1		
Pr	actical	C	ont	act he wee	ours per k	Credit	- The		Marks		
Code	Subject	L	Т	Р	Total	Point	Т	otal Internal	Tota	l External	TOTAL
EC881	Design Lab / Industrial problem related practical training	0	0	6	6	4	~	40		60	100
EC882	Project part-2	0	0	12	12	6	Join X	40		60	100
EC893	Grand viva	0	0	0	0	3	Trans	40		60	100
Total Practical					18	13	NON E				
Total Semester					26	21	NON				

FACULTY PROFILE

Sl. No	Name	Qualification	Date of Birth	Designation	Date of joining
1	Dr. P.K. Saha	B.Sc., B. Tech, M. Tech, PhD		Professor	2/26/2011
2	Chittajit Sarkar	B.Sc., B. Tech, M. Tech, (PhD Registered)	1/3/1977	Associate Professor & HOD	7/1/2011
3	Kakali Gupta	B.E., M.B.M.	6/9/1972	Assistant Professor	8/10/2009
4	Sheershendu Bhattacharya	B. Tech, M. Tech	12/3/1976	Assistant Professor	7/20/2010
5	Antara Das	B.Sc. B. Tech, M. Tech	9/27/1978	Assistant Professor	8/30/2010
6	Supriya Roy	B. E, M. Tech	6/12/1960	Assistant Professor	4/16/2009
7	Anindya Ghosh	AMIE, M. E (PhD Registered)	10/5/1970	Assistant Professor	7/15/2013
8	Susobhan Ray	B. Tech, M. Tech	12/15/1987	Assistant Professor	1/21/2014
9	Nabhojit Dutta	B. Tech, M. Tech	4/1/1984	Assistant Professor	5/13/2014
10	Anindya Sundar Das	B.E, M. E (PhD Registered)	10/3/1980	Assistant Professor	2/1/2016
11	Divya Rao	B.E, M. E	6/26/1983	Assistant Professor	5/11/2014
12	Soumyajit Das	B. Tech, M. Tech	1/4/1985	Assistant Professor	12/1/2012
13	Atreyee Ghosh	B. Tech, M. Tech	8/14/1990	Assistant Professor	8/8/2015
14	Ipsita Ghosh	B. Tech, M. Tech	6/5/1990	Assistant Professor	12/1/2016
15	Arpita Das	B. Tech, M. Tech (PhD Registered)	6/18/1989	Assistant Professor	7/26/2017
16	Sourav Sadhukhan	B. Tech, M. Tech	5/22/1990	Assistant Professor	7/26/2017

7.0 TECHNICAL STAFFS:

- 1. Mr. Raju Paul
- 2. Mrs. Yuthika Jana
- 3. Mrs. Barnali Jana
- 4. Mrs. Mousumi Dhara
- 5. Mr. Sayantan Talukdar
- 6. Ms. Mukta Mitra
- 7. Ms. Arpita Majhi

8.0 DELEGATION OF RESPONSIBILITY:

Institutional:

- Academic Council: Chittajit Sarkar
- Examination Cell: Sourav Sadhukhan, Barnali Jana, Mukta Mitra
- Routine Committee: Divya Rao, Anindya Sundar Das, Sheershendu Bhattacharya
- Disciplinary Committee: Chittajit Sarkar
- Anti-ragging Committee: Chittajit Sarkar, Sheershendu Bhattacharya, Anindya Ghosh
- Sports committee: Nabhojit Dutta, Susobhan Roy, Mukta Mitra,

Departmental:

- Research and Development: Anindya Sundar Das, Anindya Ghosh, Arpita Das
- University Affairs: Chittajit Sarkar, Sheershendu Bhattacharya
- Students' Mentorship: Ipsita Ghosh, Raju Paul, Yuthika Jana, Sayantan Talukdar
- Departmental Library: Nabhojit Dutta, Mousumi Dhara, Arpita Maji,

9.0 STUDENTS ACTIVITY:

- Organized Blood donation camp.
- Organized and participated in the annual cultural fest 'Enthuzea-2017'.
- Organized and participated in the tech fest.

10.0 **SPACE ALLOCATION:**

A) Laboratories

SI.	Laboratory Name	Room No	Area in
No			Sq. Ft
1	EM THEORY AND TRANSMISSIONS	A 201	828
	LABORATORY/		
	RF & MICROWAVE ENGINEERING		
	LABORATORY/		
2	DIGITAL ELECTRONICS & INTEGRATED	A 202	630
	CIRCUITS LABORATORY		
3	ANALOG ELECTRONICS LABORATORY	A 207	504
4	SIGNALS AND SYSTEMS/ DIGITAL	A 310	576
	SIGNAL PROCESSING LABORATORY		
5	ANALOG COMMUNICATION/ DIGITAL	A 325	576
	COMMUNICATION LABORATORY		
6	MICROPROCESSORS &	A 326	540
	MICROCONTROLLERS LABORATORY		
7	SOLID STATE DEVICES LABORATORY	A 401	828
0		4.404	640
8	BASIC ELECTRONICS LABORATORY – 1/ II	A 404	648
9	EMBEDED SYSTEMS LAB	A 416	324
10	CIRCUIT THEORY & NETWORKS	A 418	756
	LABORATORY/ VLSI DESIGN		
	LABORATORY/ DESIGN LABORATORY		

B) Classrooms

B) Classrooms					
SI. No	Class room	Room No	Area in Sq. Ft		
1	ECE 1 st year	A 413	720		
2	ECE 2 nd year SEC A	A 305	576		
3	ECE 2 nd year SEC B	A 303	702		
4	ECE 3 rd year SEC A	A 210	576		
5	ECE 3 rd year SEC B	A 209	540		
6	ECE 4 th year SEC A	A 409	540		
7	ECE 4 th year SEC B	A 311	594		

C) Others

Sl. No	Departmental Room	Room No	Area in Sq. Ft
1	HOD room	A 316	324
2	Faculty Room	A 320	504

11.0 RESOURCES:

11.1 DEPARTMENTAL LIBRARY:

Books available: 66

11.2 LABORATORY:

	1. Plotting of Standing Wave Pattern along a		
	transmission line when the line is open-circuited, short-		
	circuited		
	and terminated by a resistive load at the load end.		
ELECTROMAGNETIC	2. Input Impedance of a terminated coaxial line using		
WAVE AND	shift in minima technique.		
TRANSMISSION LINES	3. Study of Smith chart.		
LABORATORY	4 Radiation Pattern of dipole antenna		
ROOM NO. A201	5. Radiation Pattern of a folded-dipole antenna		
(1 st FLOOR)	6. Radiation pattern of a 3-element Vagi-IIda Antenna		
	7 Rediction pattern Gain Directivity of a Dynamidal		
	1. Radiation patient, Gain, Directivity of a Fylamidal		
	Politi Antenna.		
	8. Study of Spectrum Analyzer.		
	1. Determination of phase and group velocities in a		
	waveguide carrying TE10 wave from Dispersion		
	$\frac{\text{diagram}}{2} \left[\frac{\omega - \rho}{\rho} \right] \frac{1}{2} \frac{1}{\omega} \frac$		
	2. Measurement of unknown impedance using shift in		
<	minima technique using a waveguide test bench/		
DE & MICDOWAVE	Measurement of the susceptance of an inductive and or		
	a capacitive window using shift in minima technique		
ROOM NO A201	2. Study of the characteristics of a Defley Klystron		
(1 st FLOOR)	5. Study of the characteristics of a Kellex Klystron		
(I ILOOK)	A Study of Curp agaillator Characteristics using V		
	4. Study of Oulli-oscillator Characteristics using X-		
	5 Magurement of coupling factor Directivity		
	Insertion loss and Isolation of a Directional coupler		
	using X-band waveguide test bench set up		
	6 Scattering matrix of a magic tee / E-plane tee / H-		
	of Seattering matrix of a magic tee / E-plane tee / H-		
	7 Experimental/Simulation Study of filter (I PE HPE		
	BPF) response		
	1. Realization of basic gates using Universal logic gates		
DIGITAL ELECTRONICS	2 Code conversion circuite DCD to Everse 2 and vice		
LABORATORV	2. Code conversion encuris- DCD to Excess-5 and vice-		
ROOM NO A 202	3 Four-bit parity generator and comparator circuits		
(1 st FLOOR)	4. Construction of simple Decoder and Multinlever		
(1 1 2001()	4. Construction of simple Decoder and Multiplexer		
	encuris using logic gales.		

	5. Design of combinational circuit for BCD to decimal
	conversion to drive 7-segment display using
	multiplexer.
	6. Construction of simple arithmetic circuits-Adder,
	Subtractor
	7. Realization of RS-JK and D flip-flops using
	Universal logic gates.
	8. Realization of Universal Register using JK flip-flops
	and logic gates.
	9. Realization of Asynchronous Up/Down counter.
	10. Realization of Synchronous Up/Down counter
	1 Conception of vorious signals using MATLAD in both
	1. Generation of various signals using MATLAB in both
	continuous and discrete domain
	2. Verification of independent variable transformation $1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 $
	and amplitude scaling of signals in MATLAB
SIGNALS AND	3. To study Z- transform of: a) Sinusoidal signals b)
SYSTEMS	Step functions.
LABORATORY	4. To compare Fourier and Laplace transformations of a
ROOM NO. A310	signal.
(2 nd FLOOR)	5. To study convolution theorem in time and frequency
(= = = = = = = = = = = = = = = = = = =	domain.
	6. To Study Signal Synthesis via sum of harmonics.
	7. To study LPF & HPF, band pass and reject filters
E	using RC circuits.
	8. To demonstrate how analog signals are sampled and
	how different sampling rates affect the outputs.
	9. To determine the components of: a) Square wave b)
	Clipped sine wave.
	1. Sampled sinusoidal signal, various sequences and
	different arithmetic operations.
	2. Convolution of two sequences using graphical
	methods and using commands- verification of the
	properties of convolution
	3. Z-transform of various sequences – verification of the
	properties of Z-transform.
DIGITAL SIGNAL	4. Twiddle factors – verification of the properties.
PROCESSING LAB	5. DFTs / IDFTs using matrix multiplication and also
ROOM NO. A310	using commands
(2 nd FLOOR)	6. Circular convolution of two sequences using
	graphical methods and using commands, differentiation
	between linear and circular convolutions.
	7. Verifications of the different algorithms associated
	with filtering of long data sequences and Overlap –add
	and Overlap-save methods.
	8. Butterworth filter design with different set of
	parameters
	9. FIR filter design using rectangular. Hamming and
	Blackman windows
	10. Innovative (extra): Correlation- Auto-Correlation
	and Cross-Correlation. Verification of Properties

	11 Innovative (extra): Determination of FFT of a given
	sequence
	12. Innovative (extra): Recording and measuring the frequency of voice signals
	 13. Writing & execution of small programs related to arithmetic operations and convolution using Assembly Language of TMS320C 5416/6713 Processor, study of MAC instruction.
	1.Familiarization of basic instruments like Function Generator, CRO, DSO, Spectrum Analyzer etc.
	 Measurement of modulation index of an AM signal. measurement of output power with varying
ANALOG	4. Measurement of distortion of the demodulated output with varying modulation index of an AM signal (for
COMMUNICATION LAB ROOM NO. A325	both DSB-SC & SSB).5. Measurement of power of different frequency
(2 nd FLOOR)	components of a frequency modulated signal & the measurement of the bandwidth.
	6. Design a PLL using VCO & to measure the lock frequency.
	7. Design a FM demodulator using PLL.
L	8. Measurement of selectivity, sensitivity, fidelity of a super hetero-dyne receiver.
	9.Generation of FM using VCO chip (to view the wave shapes)
	10.Generation of PAM using Transistor
	11.Generation of PWM & PPM (using IC 555 Timer)
~	1. Design, implementation and study of all the properties of 7-length and 15-length pn sequences using
	shift register.
DIGITAL	2. Study of PAM and demodulation.
COMMUNICATION LAB	3. Study of PCM and demodulation.
ROOM NO. A325	4. Study of line coders: polar/unipolar/bipolar NRZ, RZ
(3 rd FLOOR)	Niancnester, Alvii.
	5. Study of denting data medulator and demodulator.
	o.study of adaptive delta modulator and demodulator.
	7.5udy of BPSK modulator and demodulator.
	8.Study of BFSK modulator and demodulator.
	9.Study of ASK modulator and demodulator.
	1. Study of pre-written programs on trainer kit using the
	basic instruction set (data transfer, Load/Store,
	Arithmetic, Logical) Assignments based on above.
	2. Familiarization with 8085 & 8051 simulator on PC.
	(data transfer I oad/Store Arithmetic I ogical) on the
	impleter Assignments has a shave
MICROPROCESSORS &	I simulator. Assignments based on above
MICROPROCESSORS & MICROCONTROLLERS	3. Programming using kit and simulator for:
MICROPROCESSORS & MICROCONTROLLERS LAB	3.Programming using kit and simulator for: i) Table look up

ROOM NO. A326	111) Shifting a block of memory
(2 nd FLOOR)	iv) Packing and unpacking of BCD numbers
	4. Program using subroutine calls and IN/OUT
	instructions using 8255 PPI on the trainer kit e.g.
	subroutine for delay, reading switch state and glowing
	LEDS accordingly.
	5. Study of 8051 Micro controller kit and writing
	programs as mentioned in S/L3. Write programs to
	interface of Reyboard, DAC and ADC using the kit.
	1. Study input characteristics of BJT in common-emitter
	configuration.
	2. Study output characteristics of BJT in common-
	emitter configuration for different base currents and
SOLID STATE DEVICES	hence determine hybrid parameters.
LABORATORY	3. Study output characteristics of BJT in common-
ROOM NO. A401	emitter configuration and find performance parameters
(3 rd FLOOR)	(Voltage Gain, Current Gain, Input Impedance, Output
	Impedance).
	4. Study of drain characteristics and transfer
	characteristics of a JFE1 and hence determine the FE1
	parameters (drain resistance, transconductance &
/	amplification factor)
	5. Study of C-V characteristics of a MOS structure by
	appropriate software.
	o. Study of drain characteristics and transfer
	EFT parameters (drain resistance, transconductance &
	amplification factor)
	1 Familiarisation with passive and active electronic
· · · · · · · · · · · · · · · · · · ·	components such as Resistors Inductors Capacitors
DACIC ELECTRONICS	Diodes. Transistors (BJT) and electronic equipment like
BASIC ELECTRONICS	DC power supplies, multimeters etc.
LABORATORY – I	2. Familiarisation with measuring and testing equipment
ROOM NO.	like CRO. Signal generators etc.
A 404 (2 rd EL OOD)	3. Study of I-V characteristics of Junction diodes.
(3 FLOOR)	4 Study of I-V characteristics of Zener diodes
	5 Study of Half and Full wave rectifiers with
	Regulation and Rinnle factors
	1 Study of I-V Characteristics of Field Effect
	Transistors.
BASIC ELECTRONICS	2 Determination of Common-Mode Rejection Ratio
LABORATORY – II	Bandwidth and Off-Set Null of On-amps
ROOM NO. A 404	3. Study of Op-amp Circuits: Inverting and Non-Inverting
(3 rd FLOOR)	Amplifiers, Adders, Integrators and Differentiators
	4 Study of Logic Gates and Realization of Roolean
	Functions Using Logic Gates
	5 Study of Characteristic Curves for Ch. Ce. And Co.
	Mode Transistors Engineering Drawing & Computer
	Graphics (Gr-B/Gr-A)

		1. Digital temperature monitor with LCD display using	٦	
		2. Digital Humanity Monitor with LCD display using		
		Arduino.		
		3. Robotic vehicle Controlled by Android App using		
		Arduino or PIC Based Microcontroller.		
		4. Digitally Controlled Home Automation by Android		
		App using Arduino or PIC Based Microcontroller		
		5. Password Based Door Lock using Arduino or PIC.		
	EMBEDDED SYSTEM	6. Water Level Controller Using Arduino or PIC		
		7. Ultra-Sonic Range Fender Using Arduino		
	$(3^{rd} ELOOP)$	8. RI base Robot		
	(J TLOOK)	9. Digital Visitors counter using Arduino of PIC.		
		10. Motor speed control using Arduino of PIC		
		12. Controlling ACL ight Using Ardving with Palay		
		Module		
		13. LED Matrix		
		14. Running Light Display		
		15. Obstacle Avoiding Robot		
		16. Light Sensor		
		17. Android control door.		
		18. Accelerometer Control robot		
	6	19. Rf Base Home Automation		
		20. Ohm meter		
		1. Familiarity with Spice simulation tool		
	7	2. Spice Simulation of Inverter, NAND, NOR Gates		
	· · · · · · · · · · · · · · · · · · ·	3. Familiarity with EDA tools for VLSI design /FPGA		
	VI CI DECICNI AD	based system design		
	ROOM NO A 418	4. Layouts, Transistors and tools.		
	$(3^{RD} FLOOR)$	5. Design of CMOS XOR/XNOR Gates		
		6. Design of CMOS Full adder		
		7. Design of CMOS Flip flops (R-S, D, J-K)		
		8. Design of 8-bit synchronous Counter		
		9. Design of 8-bit bi-directional register with tri-stated		
		10 Design of a 12 bit CDL with few instructions and		
		implementation and validation on FPGA		
		A. DISCRETE ANALOG CIRCUITS.		
		1. Rectifiers. (To design a rectifier for a given average		
		output dc voltage and a given load resistance, compare		
		between the theoretical values of Vdc, V-rms, RF, HD,		
		output regulation, transformer utility factor etc. with the		
		measured values, and thus comprehend the		
		2 DC power supplies regulation and protection circuits		
		(To learn designing a series transistor-based output		
		regulation circuit, an output current limiting circuit, fold		
		back circuit needed for a given output parameters.)		

	B. OPAMP BASED ANALOG CIRCUITS
DESIGN LAB	3. Active filters: LP, BP, HP, 1st order, 2nd order. (To
ROOM NO. A 418	learn the design of a filter and its inherent phase shifting
(3 RD FLOOR)	characteristics.)
	4. 555 based monostable and astable of duty cycle
	below and above 50%. (To learn designing 555 based
	timer circuits.)
	C. DIGITAL LOGIC CIRCUITS
	5. Design and implement a BCD to 7-segment decoder
	with basic and universal gates. (To understand clearly
	the method of writing a truth table, use of K-map,
	simplifying a logic function and optimum design with
	minimum number of ICs and inputs.)
	6. Designing logic circuits using multiplexers,
	demultiplexers and gates to implement logic functions.
	(To learn the use multiplexers and demultiplexers)
	1.Characteristics of Series & Parallel Resonant circuits
	2.Verification of Network Theorems
	3.Transient Response in R-L & R-C Networks;
	simulation / hardware
	4. Transient Response in RLC Series & Parallel Circuits
	& Networks; simulation / hardware
CIRCUITS AND	5.Determination of Impedance (Z), and Admittance (Y)
NETWORKS	parameters of Two-port networks
	6.Generation of periodic, exponential, sinusoidal,
(2rd EL OOR)	damped sinusoidal, step, impulse, and ramp signals
(3 FLOOK)	using MATLAB
	7.Representation of Poles and Zeros in s-plane,
2	determination of partial fraction expansion in s-domain
	and cascade connection of second-order systems using
	MATLAB
	8.Determination of Laplace Transform, different time
	domain functions, and Inverse Laplace

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12.0 FACULTY PARTICIPATIONS:

(a) Participation in parents department

- i) External sponsored projects
- ii) Consultancy
- iii) Continuing education
- iv) Collaboration (industrial/institutional)
- v) Students Projects
- vi) Students Guidance (M. Tech/PhD)
- vii) Invited lectures (National/International)
- viii) Professional Society Activities
- ix) Conferences/seminars/winter/summer schools

Diven by his mission

- x) Research Publications
- xi) Text Books/Monographs published
- xii) Patents/ Awards received
- xiii) Any financial Assistance for projects



13.0 NA

14.0 STUDENTS RESULTS:



15.0 INDUSTRIAL TRAINING:

Electronics & Communication Engineering department co-ordinates industrial Training for every student as this is compulsory according to university course curriculum.

SI. No.	Roll No.	Name	COMPANY NAME	PROJECT DURATION
1	24100314028	PROHLAD MONDAL	AIRPORT AUTHORITY OF INDIA	25 DAYS
2	24100314029	RAJKUMAR MAITY	AIRPORT AUTHORITY OF INDIA	25 DAYS
3	24100314030	RIDDHI DAS	AIRPORT AUTHORITY OF INDIA	25 DAYS
4	24100314031	ROHIT KUMAR SHAW	AIRPORT AUTHORITY OF	25 DAYS
5	24100315089	ISAN SAHA	AKASHVANI KOLKATA	2 WEEKS
6	24100314019	ESHITA PRADHAN	DEPARTMENT OF SIGNAL & TELECOMMUNICATIONS HOWRAH	18 DAYS
7	24100314015	DEBASISH SAHA	DOORDARSHAN KENDRA	5 DAYS
8	24100314008	ANIMESH AICH	EASTERN RAILWAY	2 WEEKS
9	24100314017	DEEPAK KUMAR PATHAK	EASTERN RAILWAY	15 DAYS
10	24100314018	DIYA KAYAL	EASTERN RAILWAY	15 DAYS
11	24100314034	SAYANTI GHOSH	EASTERN RAILWAY	14 DAYS
12	24100314035	SHUBHANGI BISWAS	EASTERN RAILWAY	14 DAYS
13	24100314009	ARGHAYA GOSWAMI	EASTERN RAILWAY HOWRAH, AIRPORT AUTHORITY OF INDIA, N.S.C.B.I AIRPORT, KOLKATA, MEZIA THERMAL POWER STATION, DVC	17DAYS, 10DAYS, 20DAYS
14	24100314002	ADITYA GHOSH	EASTERN RAILWAY HOWRAH, DVC, MTPS	18 DAYS, 21 DAYS
15	24100314003	AFSHA KHATUN	EASTERN RAILWAY HOWRAH, DVC, MTPS	18 DAYS, 21 DAYS
16	24100314007	AMRITANGSHU DATTA	EASTERN RAILWAY HOWRAH, DVC, MTPS	18 DAYS, 21 DAYS
17	24100314027	PRITAM SARDAR	EASTERN RAILWAY HOWRAH, MEJIA THERMAL POWER STATION, DVC	18DAYS, 21 DAYS
18	24100315102	SUJOY DEBNATH	EASTERN RAILWAY, DAMODAR VALLEY CORPORATION	14 DAYS, 21 DAYS
19	24100314033	SAIKAT JANA	GLOBSYN SKILLS	21 DAYS
20	24100315100	SUDIPTA AICH	GLOBSYN SKILLS	72 HRS
21	24100315101	SUDIPTO ROY	GLOBSYN SKILLS	72 HRS
22	24100314024	PAWAN KUMAR MUNDA	GLOBSYN SKILLS, HEC	30 DAYS, 15 DAYS

16.0 STUDENT'S MENTORSHIP:

Name of Faculty	Students Roll	Frequency of	Remarks	
	No.	interactions		
Chittajit Sarkar	24100317008-	Once in a	1. Collected their certificates and	
	11 (1 st Year)	month	testimonials	
			2. Problems and doubts regarding the	
	24100316027-	Once in a	different classes and others college	
	32 (2 nd Year)	week	activities had been discussed and	
			necessary action had taken.	
	24100315001-		3. Encourage them to attain the	
	$07 (3^{rd} Year)$		regular classes and submit the	
			assignment within schedule time.	
	24100314001-		4. Encourage them to take	
	04 (4 th Year)		participation in different cultural	
			programme, quiz and debate	
			competition.	
Kakali Gupta	24100317012-	Once in a	1. Collected their certificates and	
	15 (1 st Year)	month	testimonials	
		112	2. Problems and doubts regarding the	
	24100316033,	Once in a	different classes and others college	
	24100316035 -	week	activities had been discussed and	
	39 (2 nd Year)		necessary action had taken.	
	24100315008-	and the second	3. Encourage them to attain the	
	13 (3 rd Year)		regular classes and submit the	
			assignment within schedule time.	
	24100314005-		4. Encourage them to take	
	08 (4 th Year)	re have being X	participation in different cultural	
		IL DU ILD -	programme, quiz and debate	
01 1 1	0410021701(
Sheershendu	24100317016-	Once in a	1. Collected their certificates and	
Bhattacharya	$19(1^{st} \text{ Year})$	month	testimonials	
	24100316040-	Once in a	2. Problems and doubts regarding the	
	42,	week	different classes and others college	
	24100316044-		activities had been discussed and	
	46 (2 nd Year)		2 Encourage them to attain the	
	24100215014		5. Elicourage them to attain the	
	24100315014-		assignment within schedule time	
	21 (3 rd Y ear)		A Encourage them to take	
	24100214000		a Elicourage them to take	
	24100314009-		programme quiz and debate	
	$12 (4^{\text{m}} \text{ Y ear})$		competition	
Antara Das	24100317020-	Once in a	1 Collected their certificates and	
I mura Das	$23 (1^{st} \text{ Year})$	month	testimonials	
	23 (1 1 Cal)	month	2 Problems and doubts regarding the	
	24100316047-	Once in a	different classes and others college	
	$52.(2^{nd} \text{ Year})$	week	activities had been discussed and	
	24100315022-	WOOK	necessary action had taken.	
	$27 (3^{rd} Year)$			

				2 English the $t + t + 1$	
				3. Encourage them to attain the	
		24100314013-		regular classes and submit the	
		17 (4 th Year)		assignment within schedule time.	
				4. Encourage them to tak	
				participation in different cultural	
				programme, quiz and debate	
				competition.	
	Supriva Rov	24100317024-	Once in a	1. Collected their certificates and	
	2 0 p 11 j 0 100 j	$27 (1^{st} \text{Year})$	month	testimonials	
		27 (1 1001)	month	2 Problems and doubts regarding the	
		24100216052	Oncoino	different classes and others college	
		24100310033- 59 (2 nd V cm)		attivities had been discussed and	
		$58, (2^{-1} \text{ y ear})$	week	activities had been discussed and	
		24100315028-		necessary action had taken.	
		$34 (3^{rd} Vear)$		3. Encourage them to attain the	
		54 (5 1 car)		regular classes and submit the	
		24100214019	-	assignment within schedule time.	
		24100314018-		4. Encourage them to take	
		22 except		participation in different cultural	
		24100314021		programme, quiz and debate	
		(4 th Year)		competition.	
	Anindva Ghosh	241003170328-	Once in a	1. Collected their certificates and	
	, , , , , , , , , , , , , , , , , , ,	31 (1 st Year)	month	testimonials	
		01 (1 1 0m)		2. Problems and doubts regarding the	
		24100316059-	Once in a	different classes and others college	
		64, $(2^{nd} Y ear)$	week	activities had been discussed and	
		24100315035-	Carlor Com	necessary action had taken	
		/1 except	JUL Dave	2 Encourage them to attain the	
		24100315038		5. Encourage them to attain the	
		$(2^{rd} V_{cor})$		regular classes and submit the	
		(3 Year)		assignment within schedule time.	
			1.1.1.1.1.1	4. Encourage them to take	
		24100314023-	I DA LES -	participation in different cultural	
		26		programme, quiz and debate	
_		(4 th Year)		competition.	
	Susobhan Ray	24100317032-	Once in a	1. Collected their certificates and	
		35 (1 st Year)	month	testimonials	
				2. Problems and doubts regarding the	
		24100316065-	Once in a	different classes and others college	
		70, (2 nd Year)	week	activities had been discussed and	
				necessary action had taken.	
		24100315042-		3. Encourage them to attain the	
		43,		regular classes and submit the	
		24100316001,		assignment within schedule time	
		24100316006-		4. Encourage them to take	
		009		4. Encourage ment to take	
		(3 rd Year)		participation in different cultural	
		24100314027-		programme, quiz and debate	
		30		competition.	
		(4 th Vear)			
-	Nabhaiit Dutta	2/100317026	Once in a	1 Collected their certificates and	
	Naonojn Dulla	24100517050- $20(1^{st} V_{corr})$	month	testimonials	
		39(1 rear)	month	icsumoniais	

	24100316071-	Once in a	2. Problems and doubts regarding the
	76, (2 nd Year)	week	different classes and others college
			activities had been discussed and
			necessary action had taken.
	24100316010,		3. Encourage them to attain the
	24100316012-		regular classes and submit the
	13,		assignment within schedule time.
	24100316016,		4. Encourage them to take
	24100316018,		participation in different cultural
	24100316023,		programme, quiz and debate
	24100316026		competition.
	(3 rd Year)		
	24100314031-		
	34		
	(4 th Year)		
Anindya Sundar Das	24100317040-	Once in a	1. Collected their certificates and
	$43 (1^{st} Year)$	month	testimonials
	24100216077	Onco in a	2. Problems and doubts regarding the
	24100310077- 82 (2 nd Voor)	Unce III a	different classes and others college
	62, (2 - 1 cal)	WCCK	activities had been discussed and
		Cold and a second	necessary action had taken.
	24100315044-	112	3. Encourage them to attain the
	49	and and	regular classes and submit the
	(3 rd Year)	-	assignment within schedule time.
	24100314035-		4. Encourage them to take
	38	11 12	participation in different cultural
	(4 th Year)		programme, quiz and debate
	(1 1 cur)		competition.
Divya Rao	24100317044-	Once in a	1. Collected their certificates and
	$47 (1^{st} \text{Year})$	month	testimonials
	16	rr på tos »	2. Problems and doubts regarding the
	24100316083-	Once in a	different classes and others college
	89 except	week	activities had been discussed and
	24100316085,		necessary action had taken.
	(2 nd Year)		3. Encourage them to attain the
	24100315050-		regular classes and submit the
	56		assignment within schedule time.
	Except		4. Encourage them to take
	24100315052		participation in different cultural
	(3 rd Year)		programme, quiz and debate
	24100314039-		competition.
	43		
	(4 ^{un} Year)		
Soumyajit Das	24100317048-	Once in a	1. Collected their certificates and
	52 (1 st Year)	month	testimonials
			2. Problems and doubts regarding the
	24100316090-	Once in a	different classes and others college
	96 except	week	activities had been discussed and
	24100316094,		necessary action had taken.
	(2 nd Year)		

	24100315057-		3. Encourage them to attain the
	62 (2rd 11)		regular classes and submit the
	(3 rd Year)		assignment within schedule time.
	24100314044,		4. Encourage them to take
	24100315081-		participation in different cultural
	85 except		programme, quiz and debate
	24100315083		competition.
	(4 th Year)		
Atreyee Ghosh	24100317053-	Once in a	1. Collected their certificates and
	57 (1 st Year)	month	testimonials
			2. Problems and doubts regarding the
	24100316097-	Once in a	different classes and others college
	102 (2 nd Year)	week	activities had been discussed and
	24100315063-		necessary action had taken.
	69		3. Encourage them to attain the
	(3 rd Year)		regular classes and submit the
	24100315086-		assignment within schedule time.
	90		4. Encourage them to take
	(4 th Year)		participation in different cultural
		Ser.	programme, quiz and debate
In site Classifi	24100217059	0	competition.
Ipsita Gnosh	24100317058-	Once in a	1. Collected their certificates and
	02(1 Year)	month	2 Problems and doubts regarding the
	24100216102	Oncoinc	2. Floorent alassas and others college
	24100310103- 108 (2 nd Veer)	Unce in a	activities had been discussed and
	108 (2 Year)	week	activities had been discussed and
	24100315070-		3 Encourage them to attain the
	76		regular classes and submit the
	(3 rd Year)		assignment within schedule time
	0.4100215001	n by his r	4. Encourage them to take
	24100315091-		participation in different cultural
	95		programme, quiz and debate
	(4 th Year)		competition.
Arpita Das	24100317063-	Once in a	1. Collected their certificates and
	67 (1 st Year)	month	testimonials
	24100316100	Once in a	2. Problems and doubts regarding the
	$114 (2^{nd} Vear)$	week	different classes and others college
	24100315077	WCCK	activities had been discussed and
	24100313077-		necessary action had taken.
	24100316025		3. Encourage them to attain the
	24100310023,		regular classes and submit the
	24100310014,		assignment within schedule time.
	$(3^{rd} Vear)$		4. Encourage them to take
	24100315006		participation in different cultural
	100		programme, quiz and debate
	$(4^{\text{th}} \text{Vear})$		competition.
	2/100317068	Once in a	1 Collected their certificates and
	$73 (1^{st} V_{ear})$	month	testimonials
	/3 (1 1 Cal)	montil	Commoniais

	24100316116.	Once in a	2. Problems and doubts regarding the
	24100317001-	week	different classes and others college
	007 except		activities had been discussed and
	24100317006		necessary action had taken.
	(2 nd Year)		3. Encourage them to attain the
Sourav Sadhukhan	24100316021,2		regular classes and submit the
	4100316022,		assignment within schedule time.
	24100316002-		4. Encourage them to take
	05,		participation in different cultural
	24100316011		programme, quiz and debate
	(3 rd Year)		competition.
	24100315101-		
	105		
	(4 th Year)		



17.0 DEPARTMENTAL BUDGET:

Swami Vivekananda Institute of Science & Technology				
Sonarpur, Kolkata-700145				
Budget and Allocation Statement				
Dept of Electronics & Communication Engineering Rupees in Lacs				
	2017-2018			
Accounts Head	Budgeted	Allocation		
	Amount.	Amount.		
Capital Equipment, Software &	2 50	2 50		
License Fees	2.30	2.30		
Library Books	1.00	1.00		
Research & Development	1.25	1.25		
Furniture & Fixture	0.60	0.60		
Laboratory Equipment	1.50	1.50		
Visiting Faculty Remuneration	0.00	0.00		
Laboratory Exp. Consumable	0.25	0.25		
Laboratory Maintenance	0.65	0.65		
Students Projects	0.65	0.65		
Journal & Periodicals	0.40	0.40		
Faculty Development & Initiative	1.00	1.00		
Contingency Exp	0.50	0.50		
Total 10.30 10.30				

Submitted by Mr. Chittajit Sarkar HOD (ECE)